

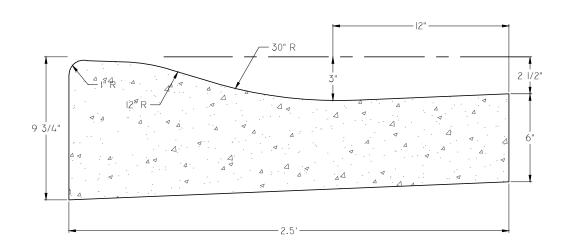
#### 35' RAD. RESIDENTIAL CUL-DE-SAC

CITY OF WYOMING ENGINEERING DEPARTMENT

35' RADIUS CUL-DE-SAC

	DRAWN BY - KJM
	CHECKED BY - JJO
ı	DATE DRAWN - 3-2021
	DATE REVISED - 3-2021

**I-24** 



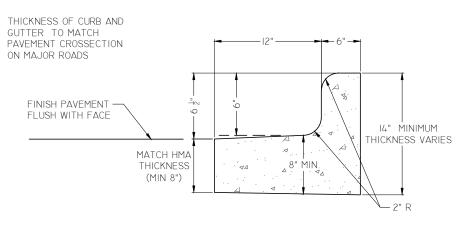
# ROLLED (MOUNTABLE) COMBINED CONCRETE CURB & GUTTER

CITY OF WYOMING ENGINEERING DEPARTMENT

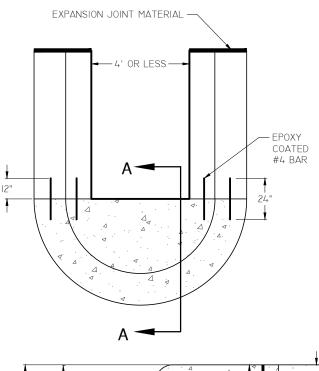
### ROLLED (MOUNTABLE) COMBINED CURB AND GUTTER

DRAWN BY -	KM
CHECKED BY -	J0
DATE DRAWN -	3-2021
DATE REVISED -	3-2021

I-25A



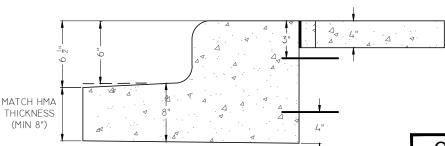
# 18" CONCRETE ISLAND CURB & GUTTER NOT TO SCALE



EPOXY COATED # 4 BAR IS TO BE NO LESS THAN 24" IN LENGTH AND EXTEND 12" INTO NOSE OF ISLAND CURB & GUTTER AND 12" INTO MAIN LINE CURB & GUTTER

THE NOSE OF THE ISLAND SHALL BE POURED SOLID FROM BEGINNING OF RADIUS TO END OF RADIUS.

EXPANSION MATERIAL SHALL BE PLACED AT THE CURB AND GUTTER JOINT PRIOR TO THE # 4 BAR OR AS DIRECTED BY THE ENGINEER



#### **PROFILE A-A**

# 18" CONCRETE ISLAND CURB & GUTTER MEDIAN ISLAND NOSE

NOT TO SCALE

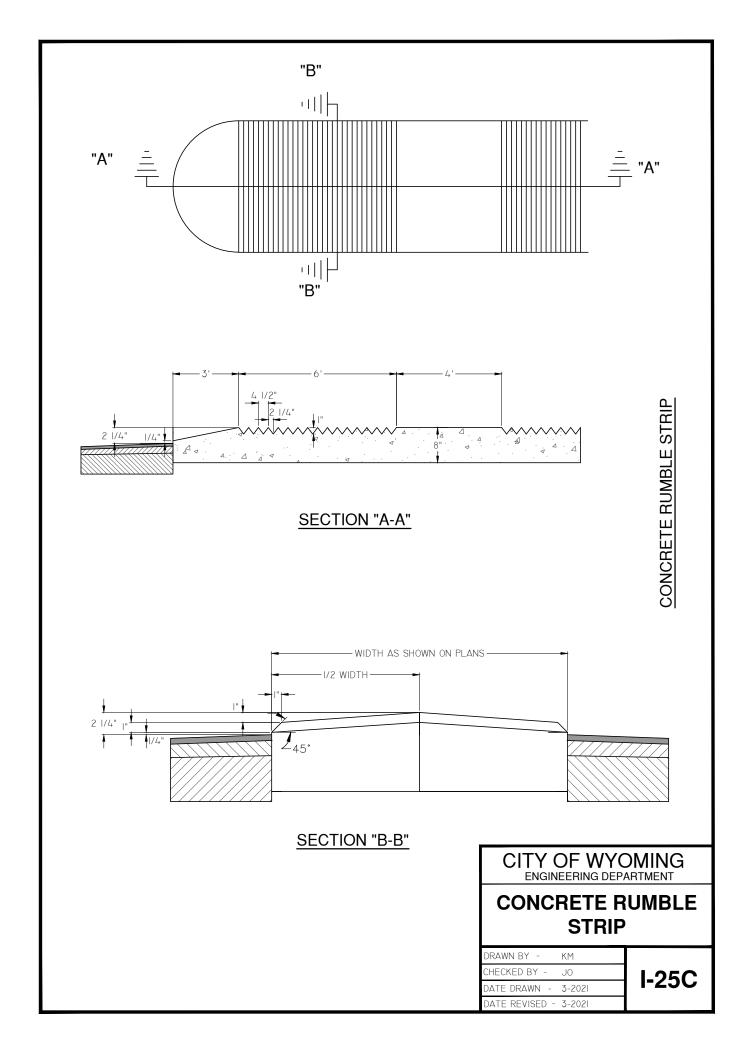
USE WHEN THE ISLAND IS 4' OR LESS FROM BACK OF CURB TO BACK OF CURB

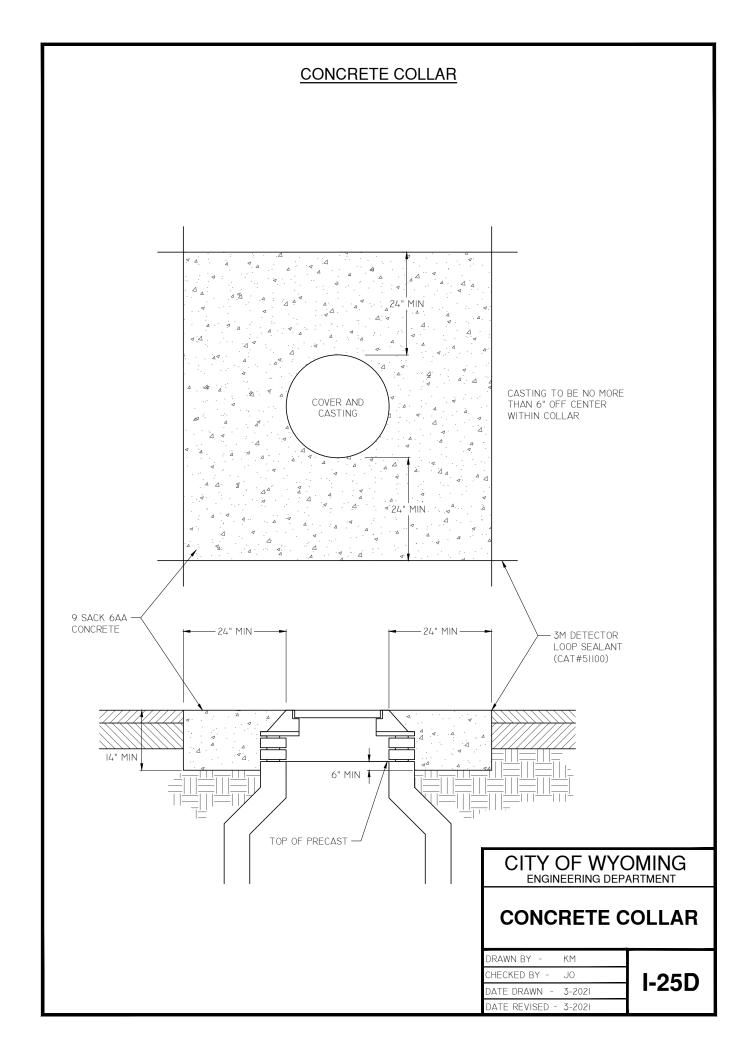
## CITY OF WYOMING ENGINEERING DEPARTMENT

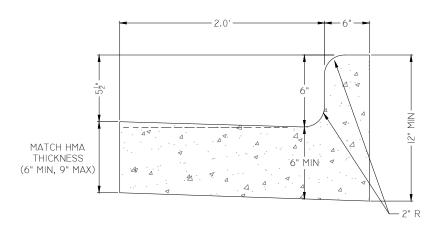
### 18" CONCRETE ISLAND CURB & GUTTER

DRAWN BY -	KM
CHECKED BY -	JO
DATE DRAWN -	3-2021
DATE REVISED -	3-2021

I-25B







# 30" CONCRETE VERTICAL FACE CURB DETAIL NOT TO SCALE

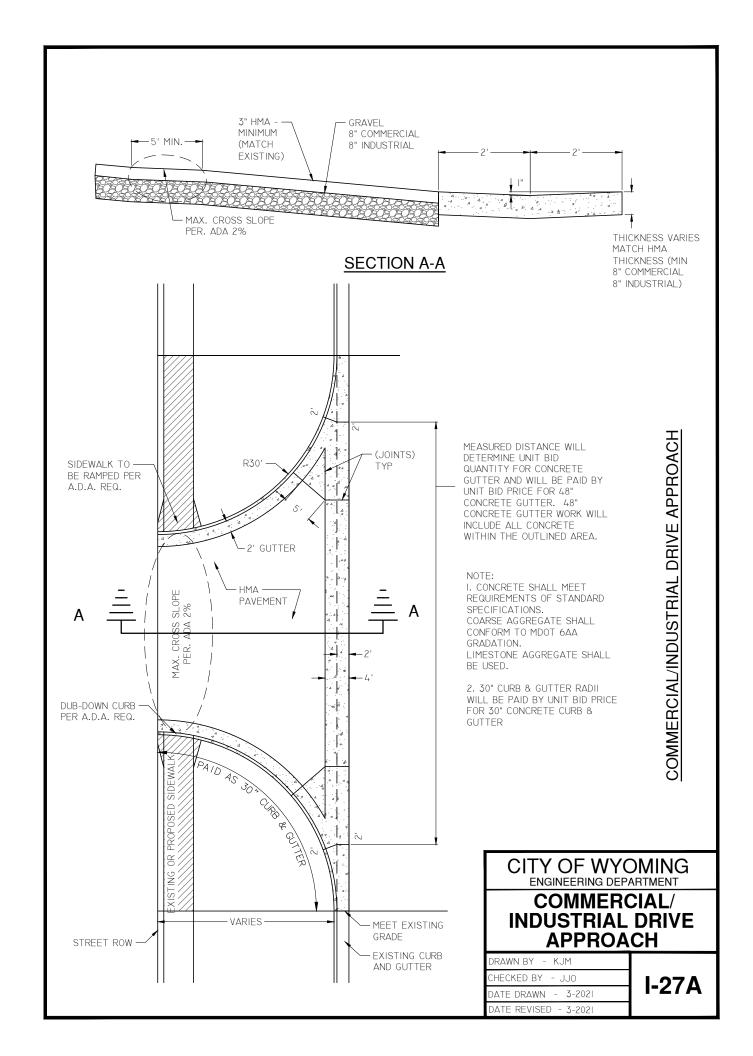
CITY OF WYOMING ENGINEERING DEPARTMENT

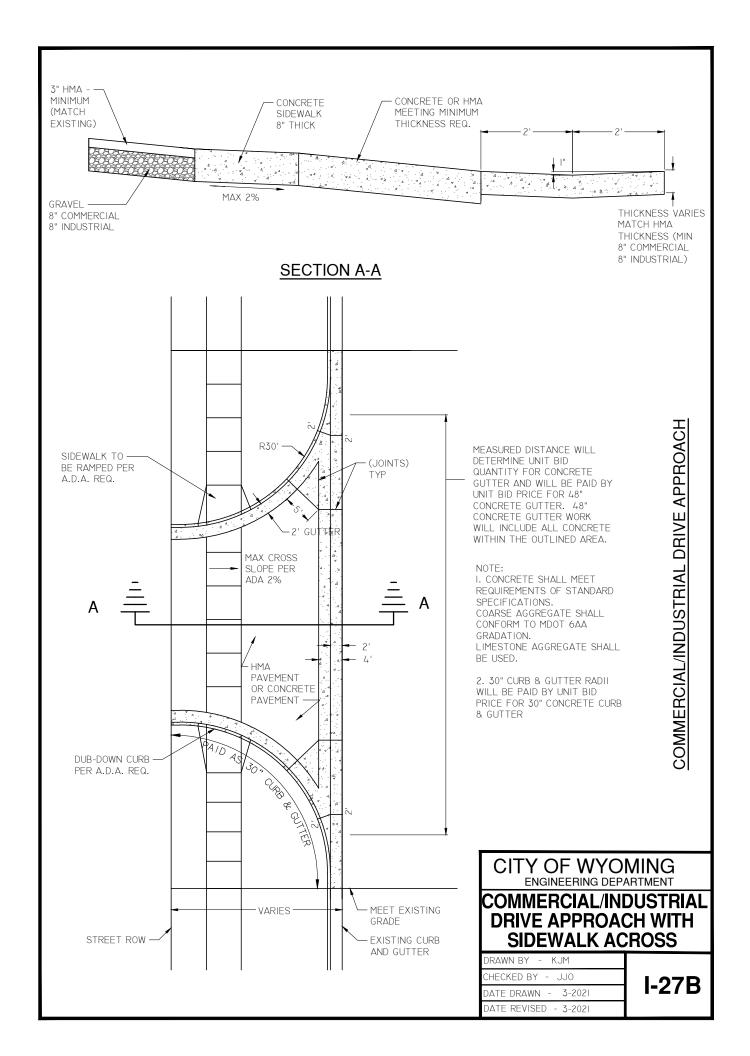
# 30" VERTICAL FACE CURB

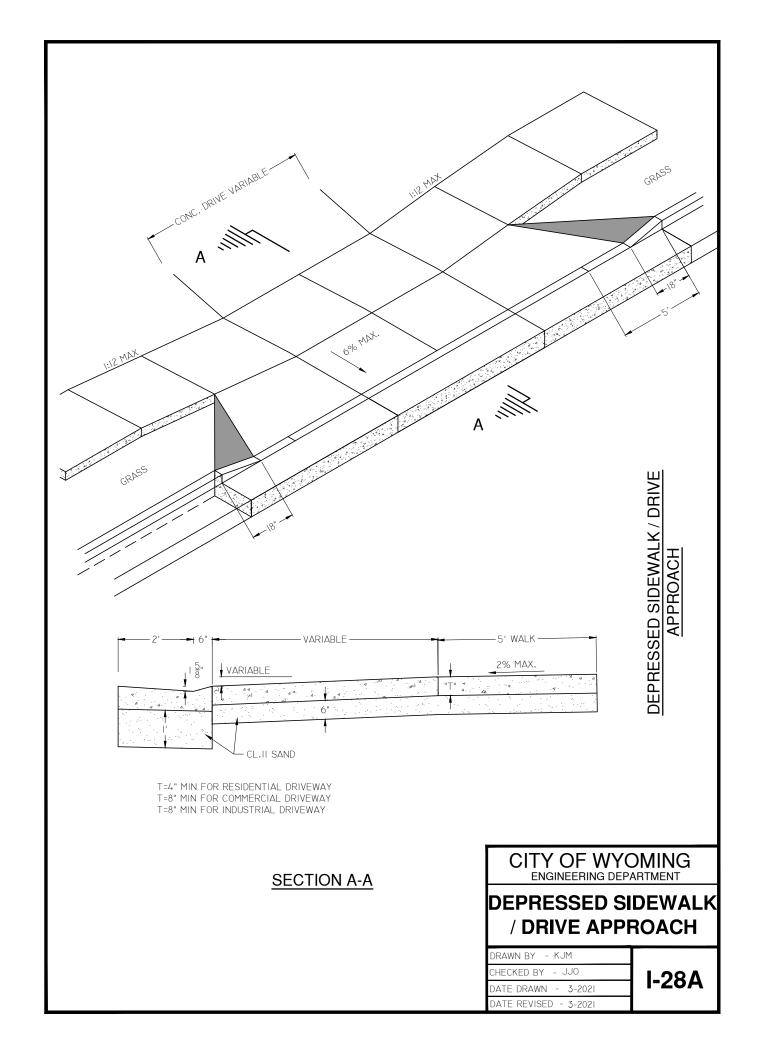
DRAWN BY -	KM
CHECKED BY -	JO
DATE DRAWN -	3-2021
DATE REVISED -	3-2021

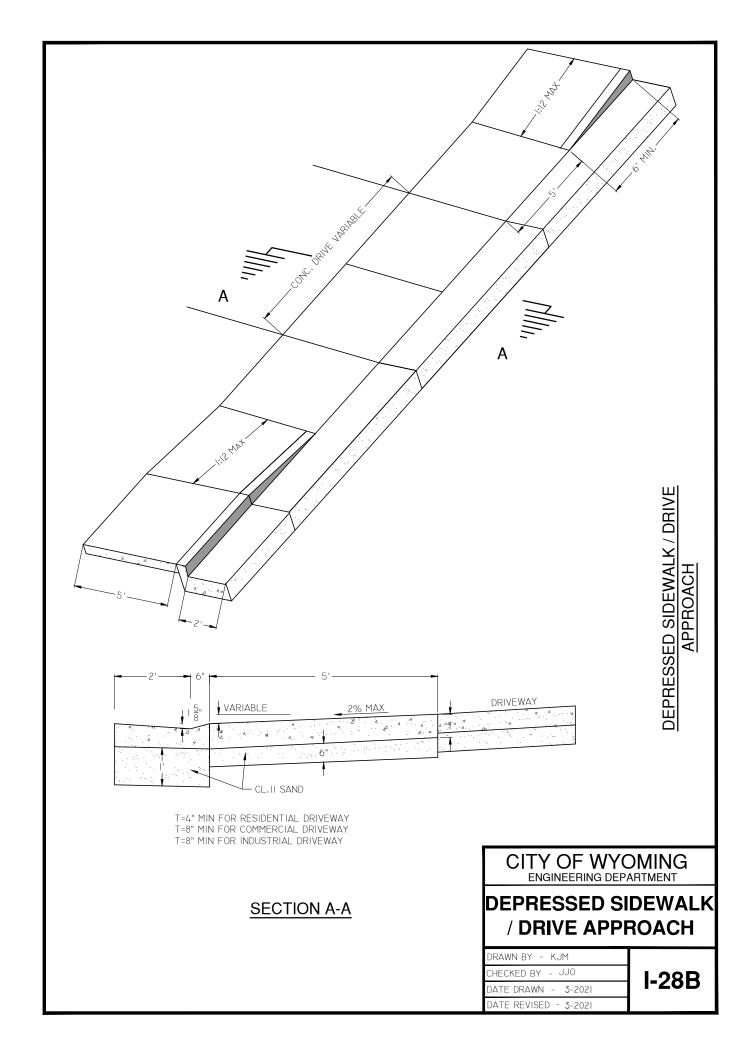
I-25E

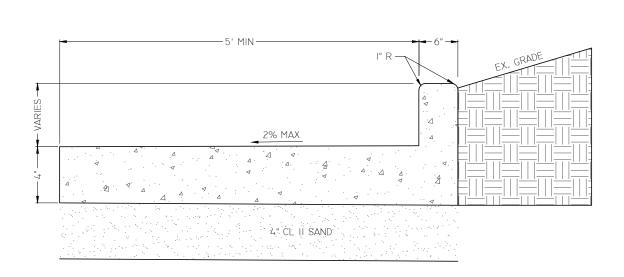
## RESIDENTIAL DRIVE APPROACH PROPERTY LINE UNLESS OTHERWISE SHOWN ON PLANS "W"= 20' MAX (2 CAR GARAGE) "W"= 30' MAX (3 CAR GARAGE) "W"= 10' MIN 1/2" PREMOLDED EXPANSION JOINT 2' MIN S 10' WIDE TO HAVE ONE (1) WEAKNESS @ CL NOTE: AT NO TIME WILL JOINTS BE PLACED SO AS TO LEAVE LESS THAN 24" WIDE CONCRETE UNLESS APPROVE VARIABLE BY ENGINEER PLANE OF WEAKNESS JOINT -φ 1'-6" - "W" + 10'-EDGE OF PAVEMENT NOTE: FOR PARKWAY OF 5' OR LESS, FLARE SHALL BE I TO I. 1'-6" $A \cdot | \cdot |$ 5 -9 NOTE: FOR PARKWAY OF 5' OR LESS, FLARE SHALL BE I TO I. A . | | CITY OF WYOMING ENGINEERING DEPARTMENT **RESIDENTIAL DRIVE SECTION A-A APPROACH** 4" THICKNESS FOR RESIDENTIAL 8" THICKNESS FOR INDUSTRIAL & COMMERCIAL DRAWN BY --TO BE USED ONLY WITH ENGR AUTHORIZATION CHECKED BY - RH **I-26** DATE DRAWN DATE REVISED - 6-01-2010











### SIDEWALK WITH INTEGRAL CURB

CITY OF WYOMING ENGINEERING DEPARTMENT

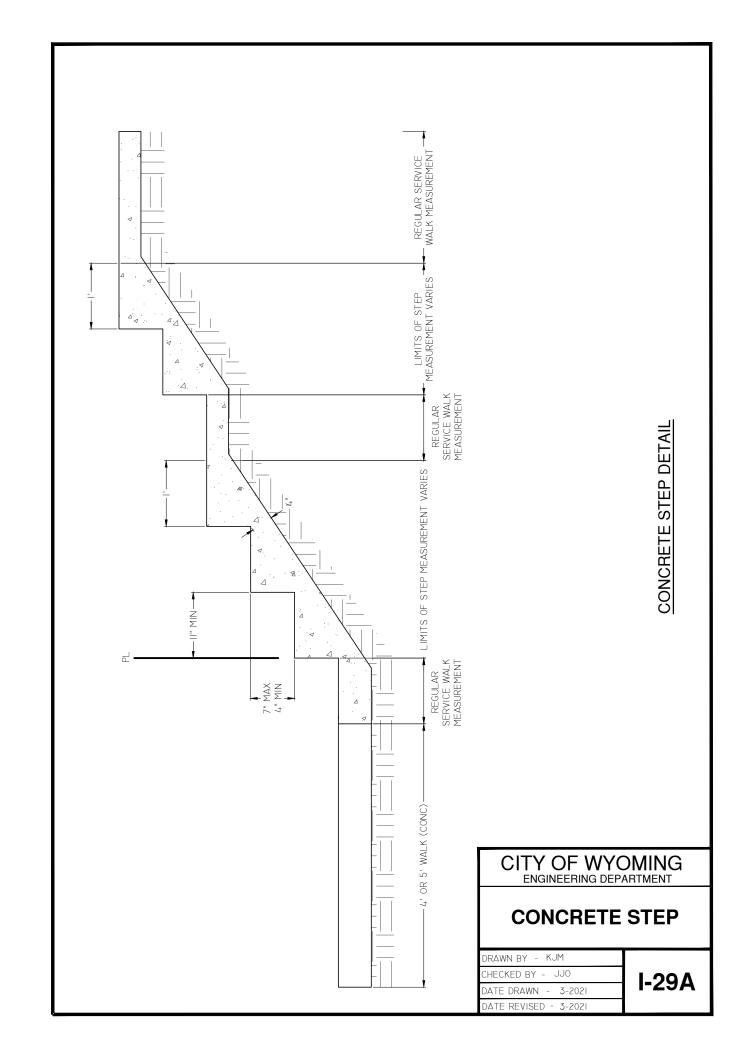
SIDEWALK WITH INTEGRAL CURB

DRAWN BY - KJM

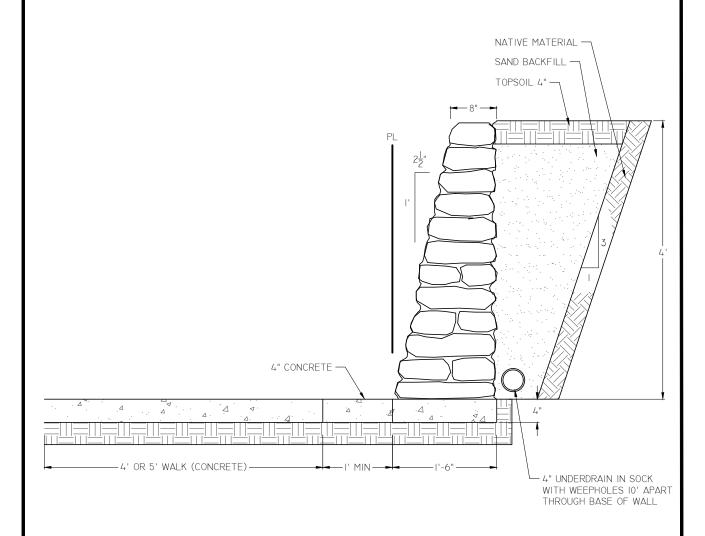
CHECKED BY - JJO

DATE DRAWN - 3-2021

**I-28C** 



#### GROUTED BROKEN CONCRETE RETAINING WALL



FOR A RETAINING WALL OF 2'-0" OR LESS IN HEIGHT, THE 4" CONCRETE FOOTING WILL NOT BE REQUIRED AND THE WIDTH OF THE BASE OF THE WALL MAY BE REDUCED TO A MINIMUM OF I'-0" WITH THE BASE EXTENDED TO A DEPTH OF 0'-6" BELOW THE TOP OF WALK.

WHERE THE HEIGHT OF THE RETAINING WALL IS GREATER THAN 4'-0", THE FOOTING AND BASE OF THE RETAINING WALL SHALL BE INCREASED  $2\frac{1}{2}$ " IN WIDTH FOR EVERY I'-0" OF ADDITIONAL HEIGHT.

# CITY OF WYOMING ENGINEERING DEPARTMENT

#### GROUTED BROKEN CONCRETE RETAINING WALL

DRAWN BY - KJM

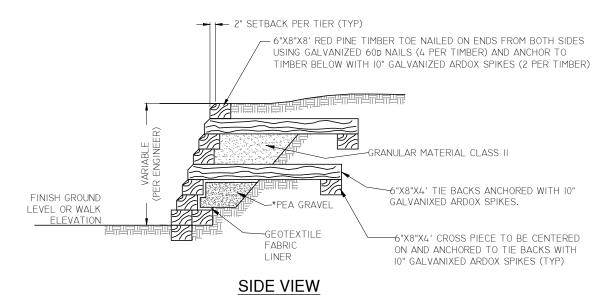
CHECKED BY - JJO

DATE DRAWN - 3-2021

DATE DRAWN - 3-2021

DATE REVISED - 3-2021

**I-29B** 



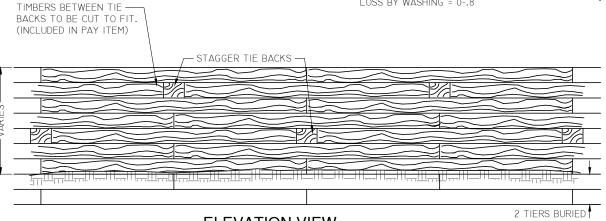
\*PEA GRAVEL GRADING SIEVE ANALYSIS PERCENT PASSING

 $\frac{1}{2}$ " = 100

 $\frac{3}{8}$ " = 95-100

NO. 4 = 30-60 NO. 8 = 0-10

LOSS BY WASHING = 0-.8



#### **ELEVATION VIEW**

MEASUREMENT AND PAYMENT:

THE COMPLETED WORK AS MEASURED FOR TREATED TIMBER WALL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BASED ON 8 LFT. OF TIMBER = T EA. EXCAVATION FOR WALL, GEOTEXTILE FABRIC LINER, PEA GRAVEL, CLASS II BACK FILL AND HARDWARE ARE INCLUDED IN ITEM.

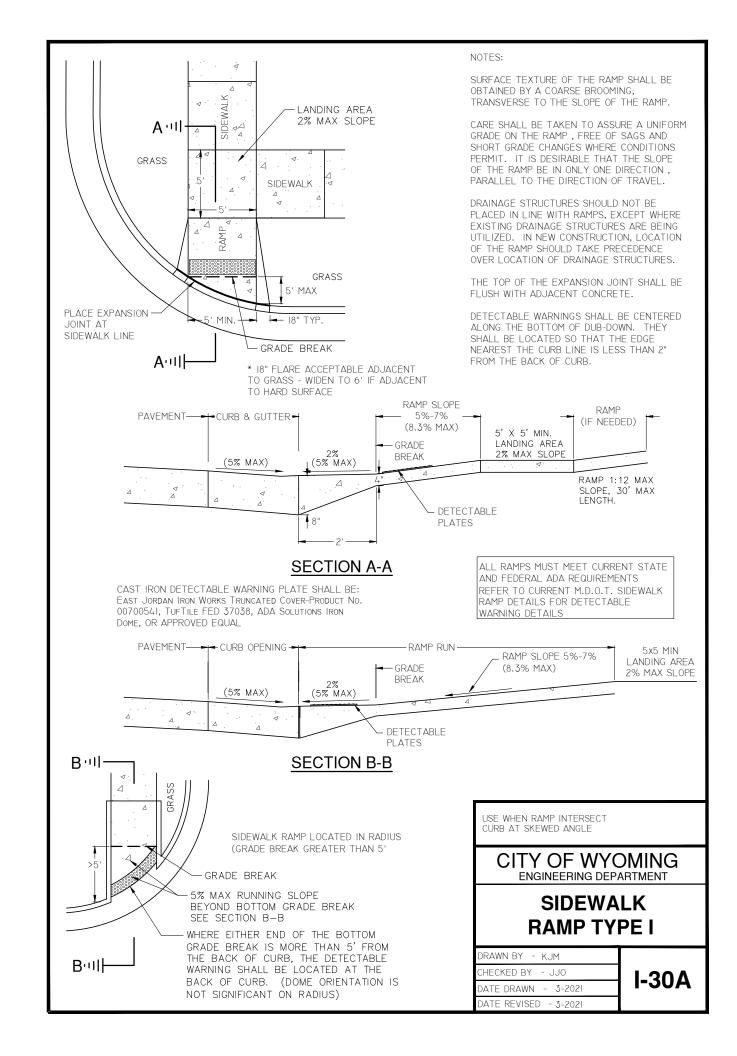
PAY UNIT TREATED TIMBER FOR WALL (6"X8"X8")

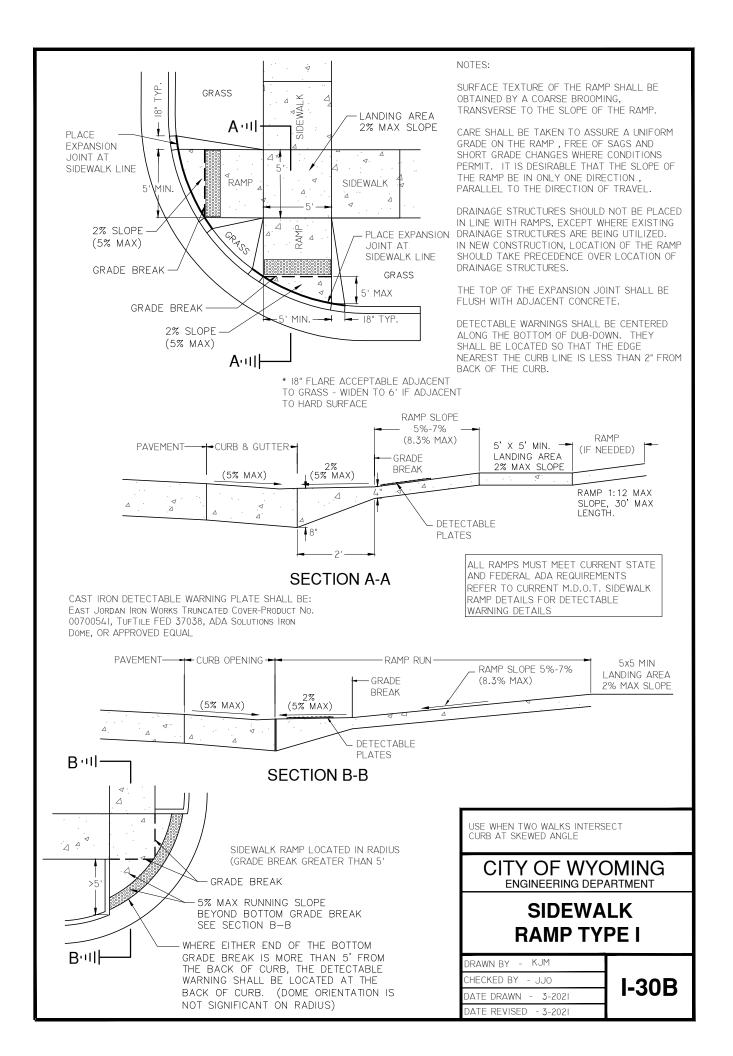
#### CITY OF WYOMING ENGINEERING DEPARTMENT

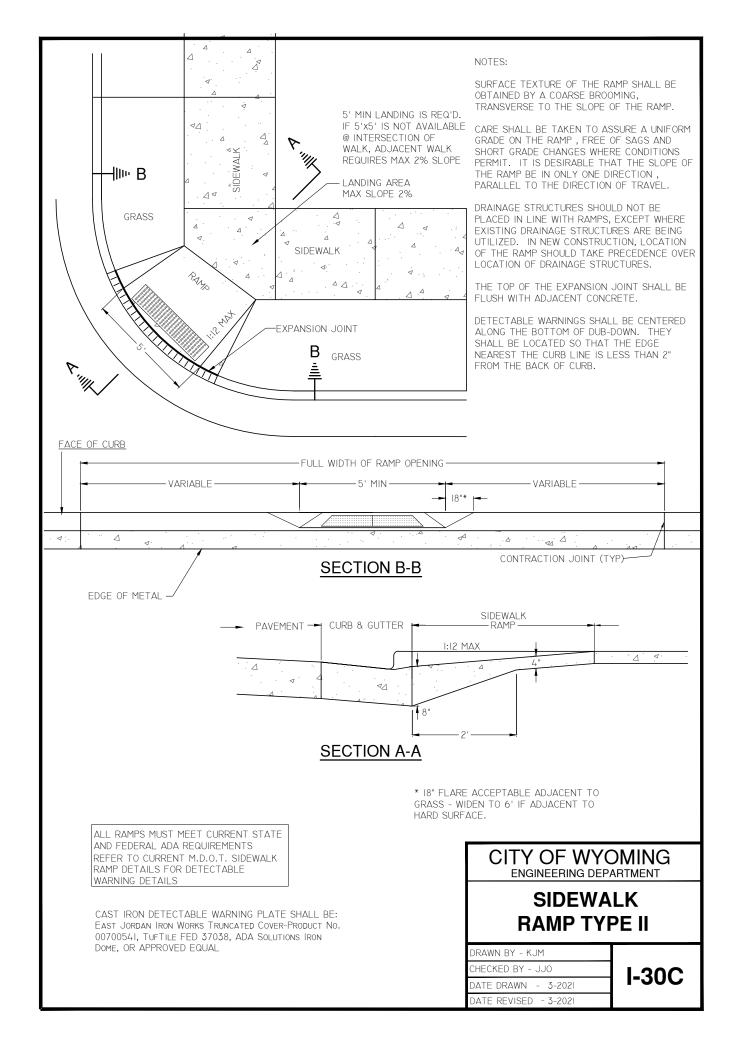
## TREATED TIMBER **WALL**

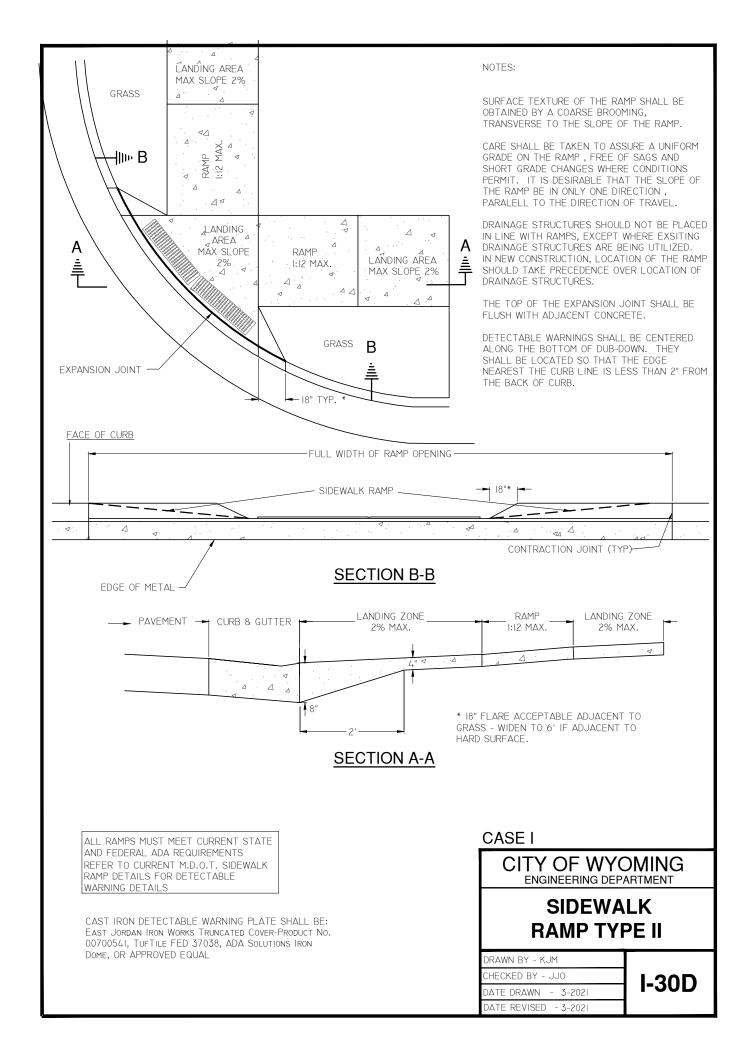
DRAWN BY - KJM
CHECKED BY - JJ0
DATE DRAWN - 3-2021
DATE DEVICED - 3 2021

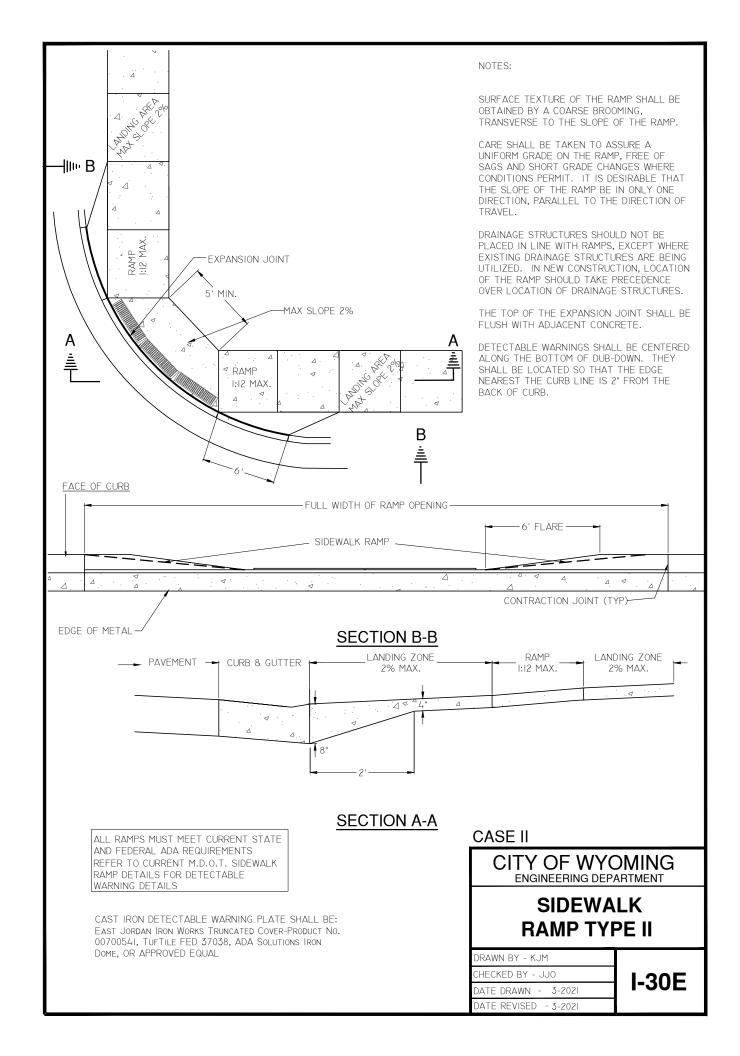
**I-29C** 

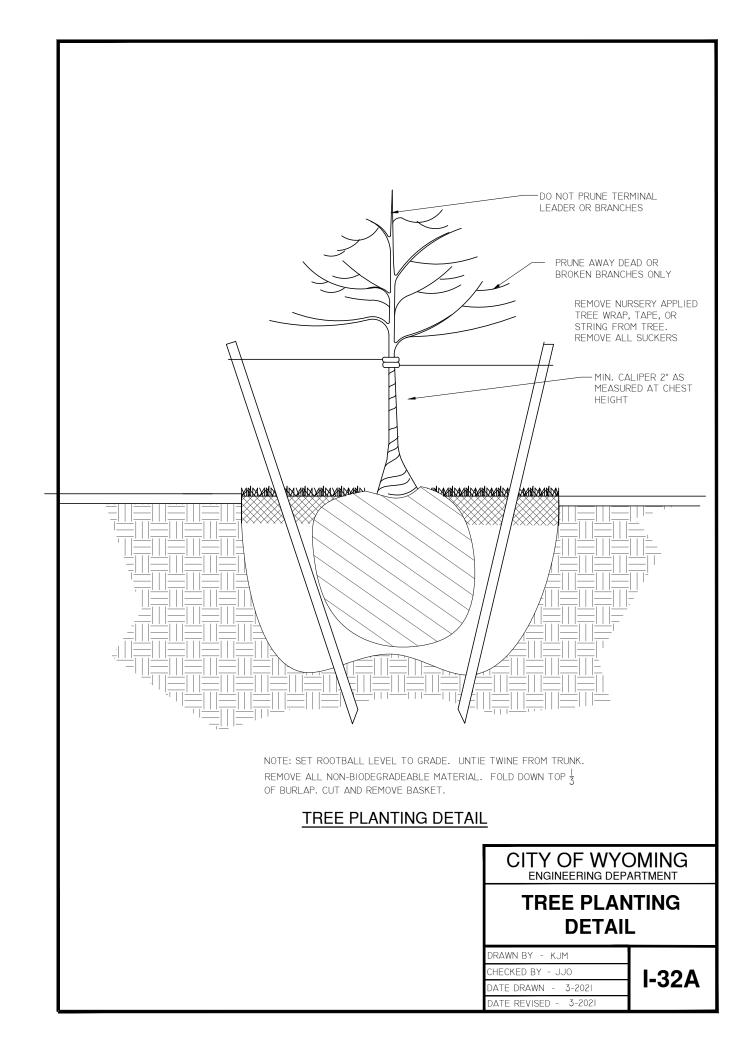


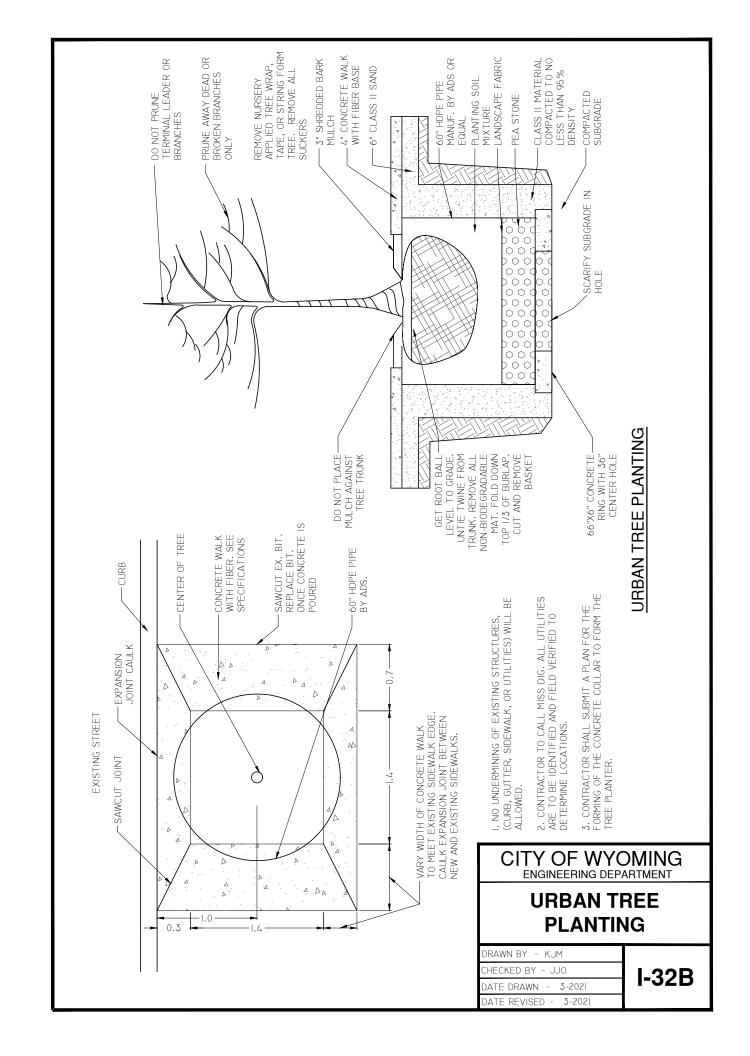




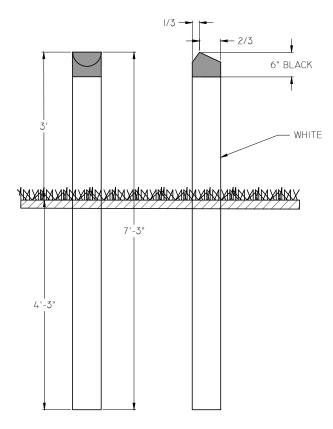








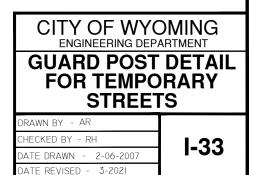
7 TREATED WOOD GUARD POSTS, EQUALLY SPACED, SHALL BE PLACED AT THE ENDS OF ALL TEMPORARY STREETS

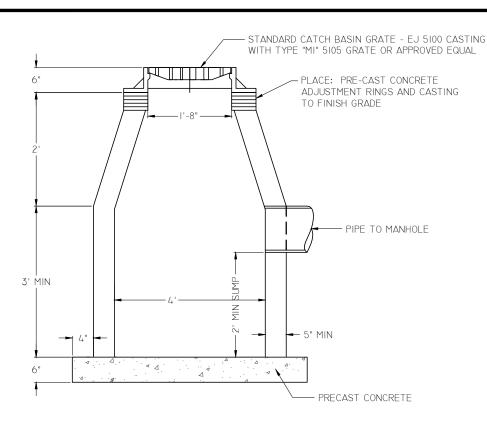


ALL POSTS SHALL BE A MINIMUM OF  $7\frac{1}{2}$ " IN DIMENSION

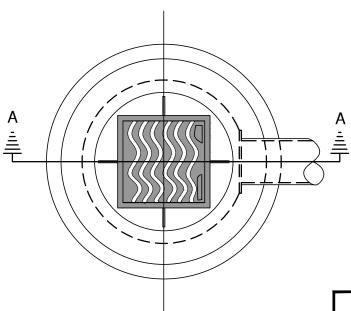
ALL POSTS SHALL BE TREATED IN ACCORDANCE WITH THE CURRENT M.D.O.T. STD. SPECIFICATIONS

### **WOOD GUARD POST**





#### **SECTION A-A**



**TOP VIEW** 

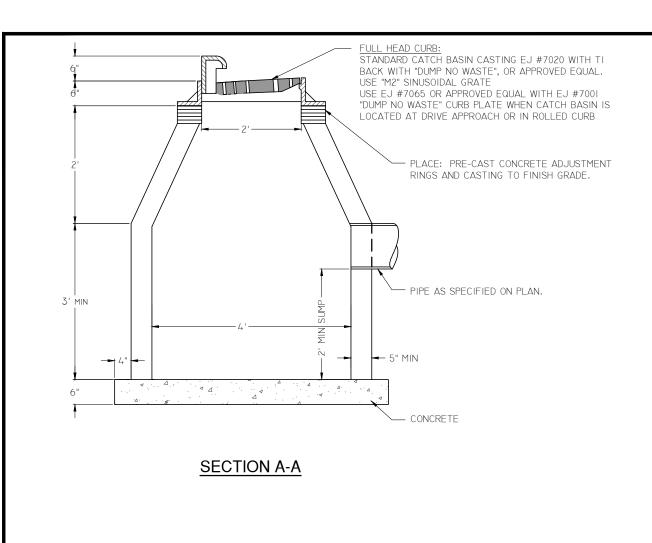
NOTE:

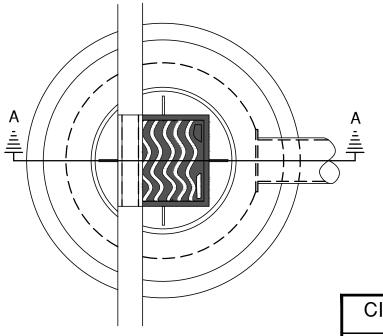
STRUCTURE SHALL BE PRE-CAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED BY THE ENGINEER CITY OF WYOMING ENGINEERING DEPARTMENT

STANDARD ALLEY GRATE BASIN

DRAWN	BY - KJM	
CHECKE	D BY -JJO	
DATE DI	RAWN - 3-2021	
DATE R	FVISED - 3-2021	

**S-1** 





TOP VIEW

NOTE:

STRUCTURE SHALL BE PRE-CAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED BY THE ENGINEER

#### CITY OF WYOMING ENGINEERING DEPARTMENT

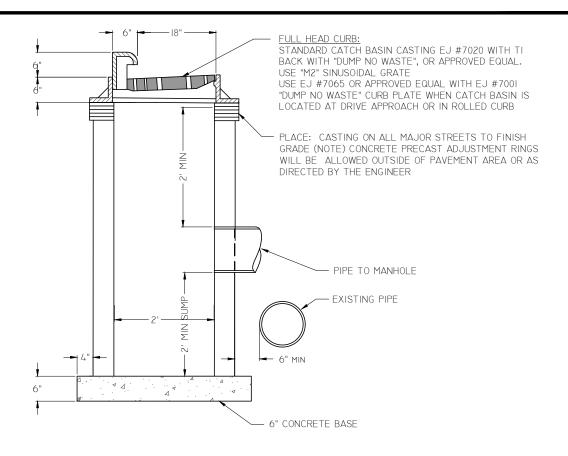
## STANDARD CATCH BASIN

DRAWN BY - KJM
CHECKED BY - JJO
DATE DRAWN - 3-2021
DATE REVISED - 3-2021

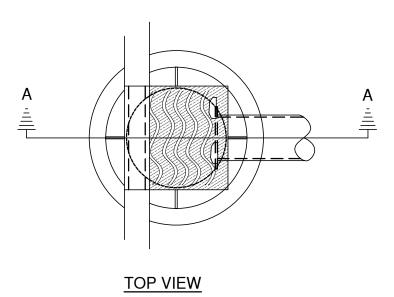
**S-2** 

STANDARD CATCH BASIN





## **SECTION A-A**



#### NOTE:

FOR USE WHERE AN EXISTING UTILITY WHICH CANNOT BE RELOCATED INTERFERES WITH STANDARD 4' DIAMETER CATCH BASIN

STRUCTURE SHALL BE PRE-CAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED BY THE ENGINEER

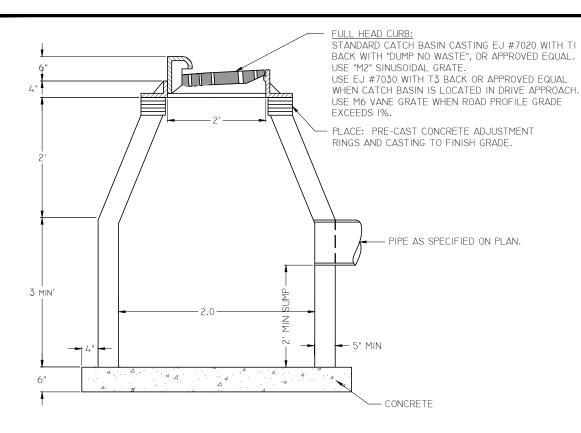
## CITY OF WYOMING ENGINEERING DEPARTMENT

# STANDARD MINI CATCH BASIN

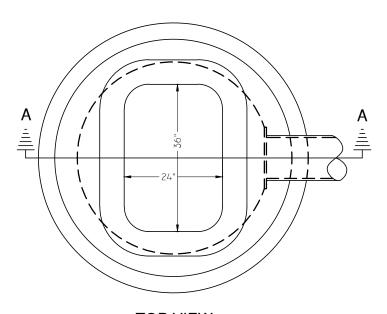
DRAWN BY - KJM
CHECKED BY -JJ0
DATE DRAWN - 3-2021
DATE REVISED - 3-2021

**S-3** 





#### **SECTION A-A**



TOP VIEW

NOTE:

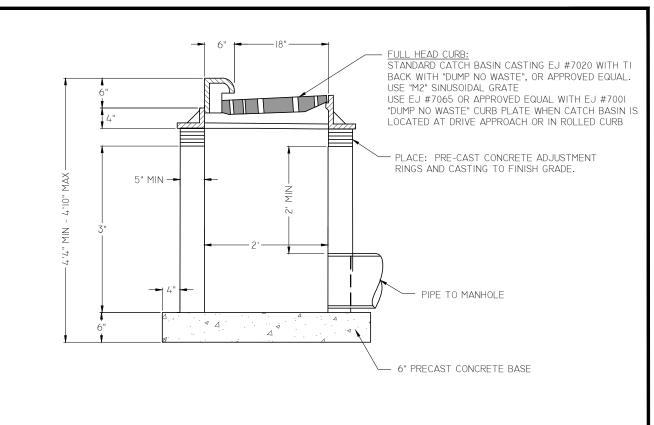
STRUCTURE SHALL BE PRE-CAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED BY THE ENGINEER

CITY OF WYOMING ENGINEERING DEPARTMENT

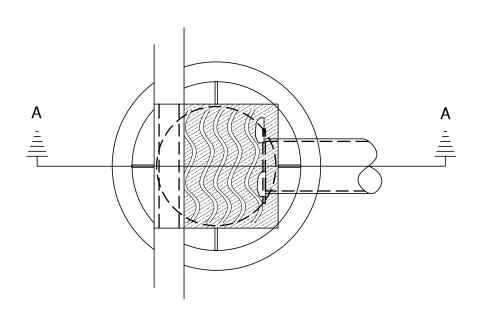
# STANDARD DOUBLE CATCH BASIN

DRAWN BY - KJM
CHECKED BY -JJ0
DATE DRAWN - 3-2021
DATE DEVISED _ 3_2021

**S-4** 



### **SECTION A-A**



TOP VIEW

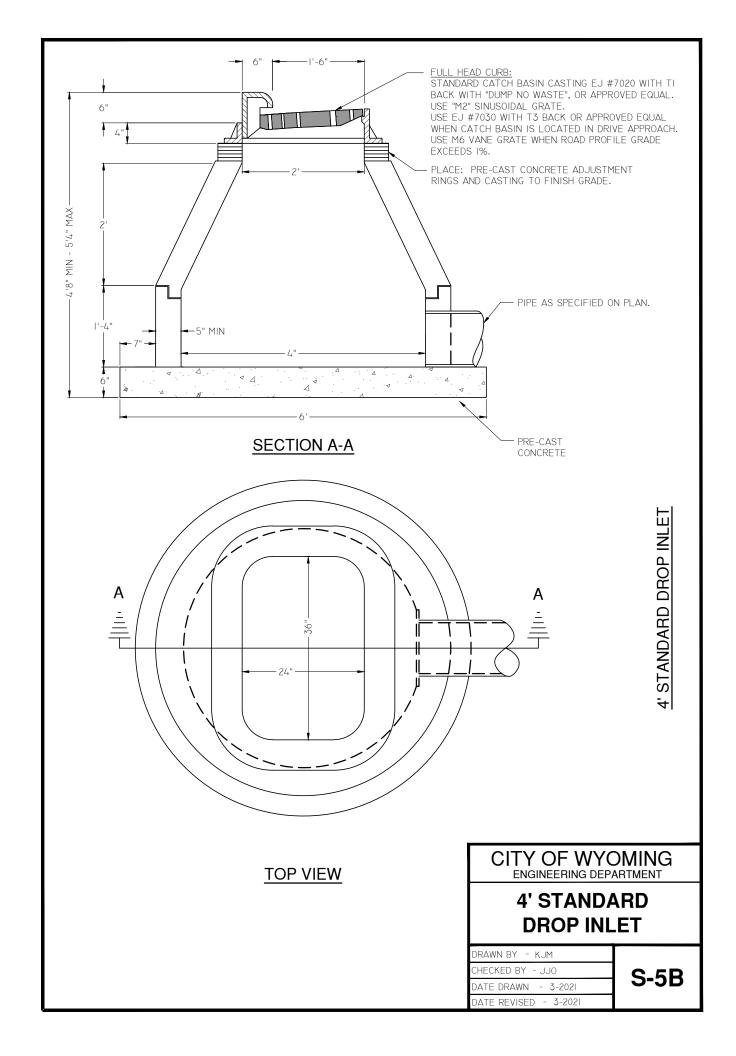
CITY OF WYOMING ENGINEERING DEPARTMENT

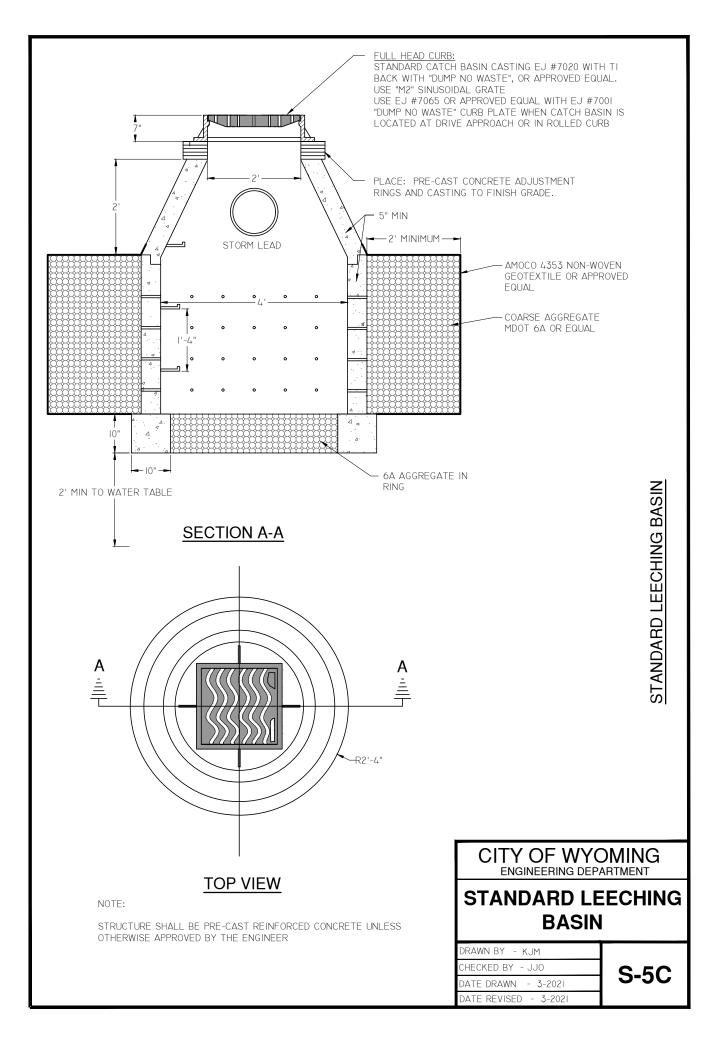
# 2' STANDARD DROP INLET

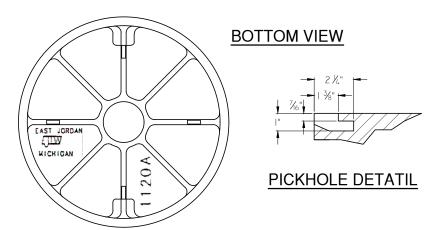
DRAWN BY - KJM
CHECKED BY - JJO
DATE DRAWN - 3-2021
DATE REVISED - 3-2021

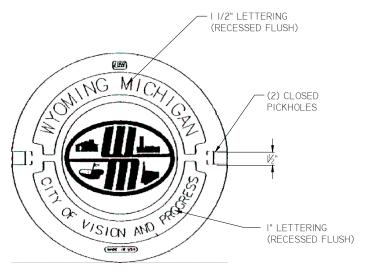
**S-5A** 

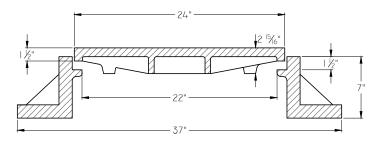
2' STANDARD DROP INLET











### **CASTING AND COVER SECTION**

EAST JORDAN 1040 OR APPROVED EQUAL HEAVY DUTY

TYPE "C" 2 HOLE VENT COVER TOTAL WEIGHT 375#

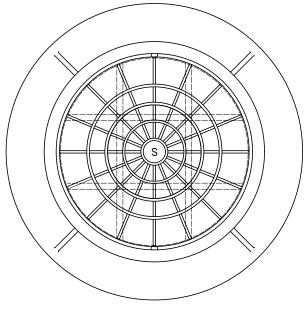
# CITY OF WYOMING ENGINEERING DEPARTMENT

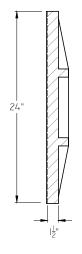
LEGACY WYOMING STD. MANHOLE COVER AND FLANGE

DRAWN BY - KJM
CHECKED BY - JJO
DATE DRAWN - 3-2021
DATE REVISED - 3-2021

**S-6** 

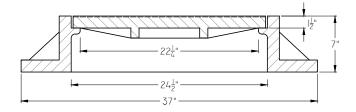
# LEGACY STANDARD MANHOLE COVER AND FLANGE BASE (NO LONGER USED)





EAST JORDAN 1040 C OR APPROVED EQUAL HEAVY DUTY

Type "C", 2 Hole Vent Cover Total Weight 350#



Note: Specify when ordering whether letters "S" or "W" are to be cast on covers.

CITY OF WYOMING ENGINEERING DEPARTMENT

LEGACY STD.
MANHOLE COVER AND
FLANGE

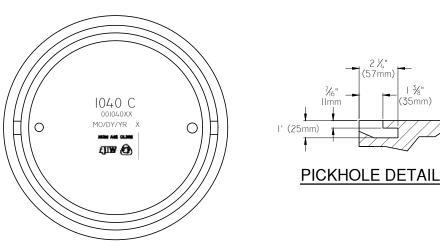
DRAWN BY - KJM

CHECKED BY - JJO

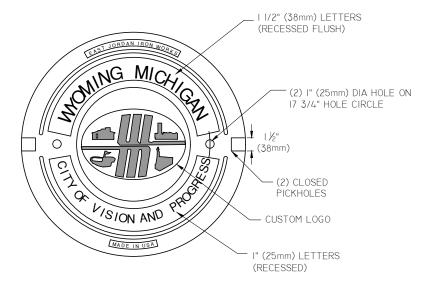
DATE DRAWN - 3-2021

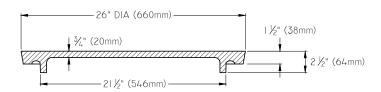
DATE REVISED - 3-2021

S-6A



### **BOTTOM VIEW**





### **CROSS SECTION**

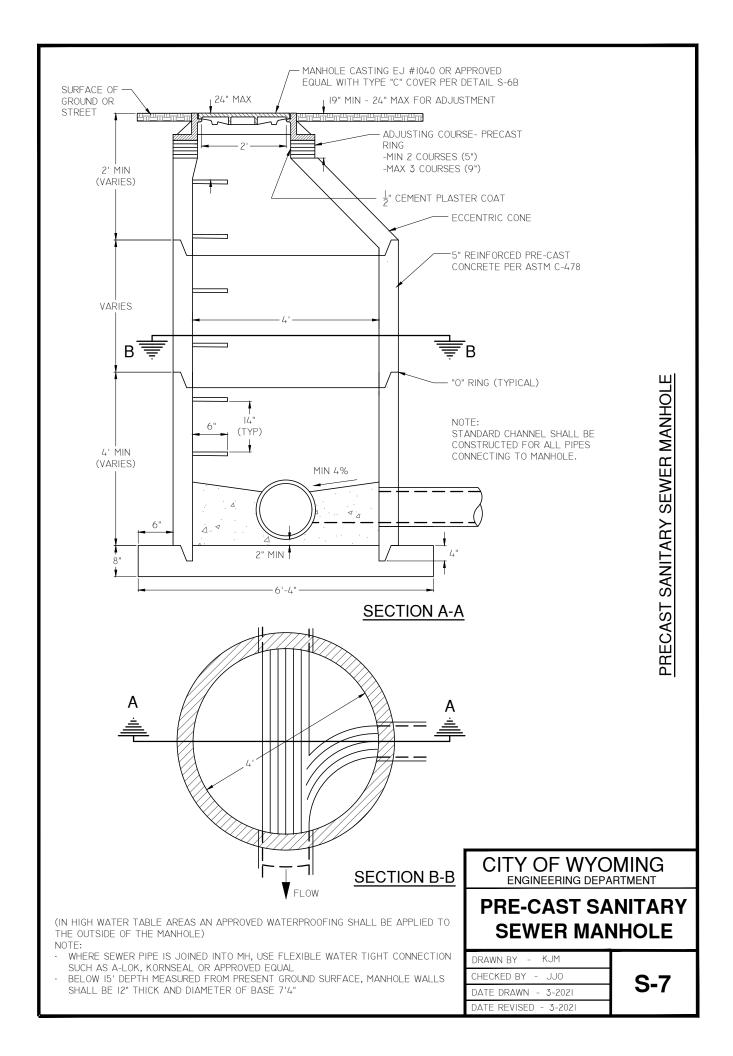
# CITY OF WYOMING ENGINEERING DEPARTMENT **WYOMING STD. MANHOLE COVER AND FLANGE**

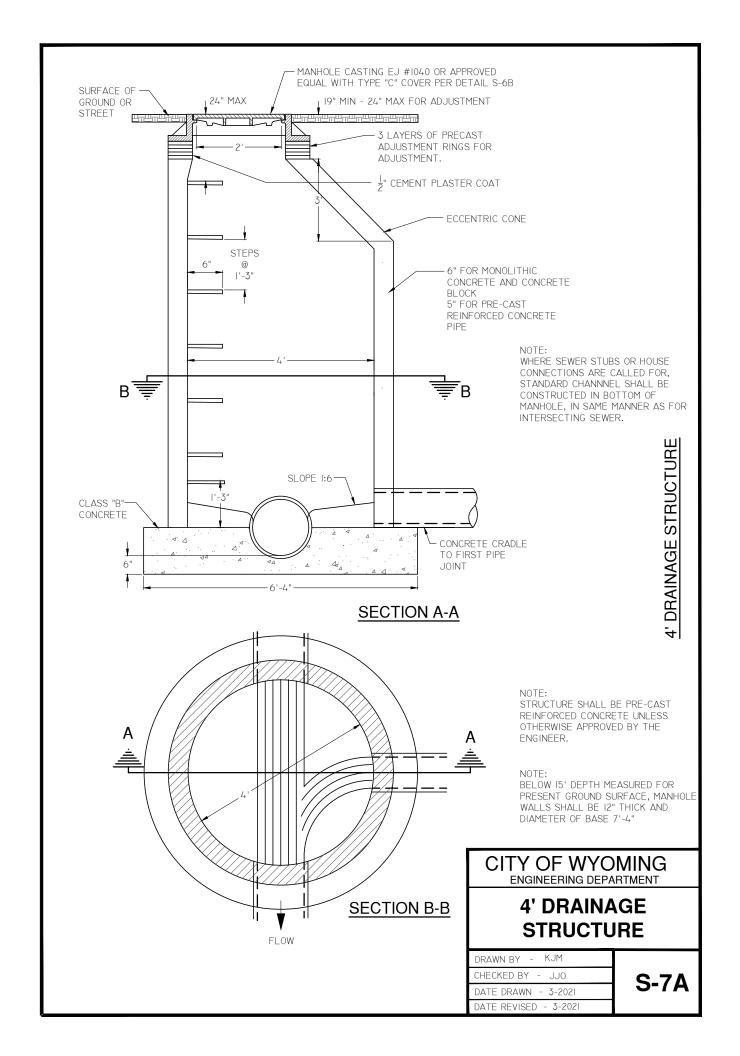
DRAWN BY - KJM CHECKED BY - JJO DATE DRAWN 3-2021 DATE REVISED

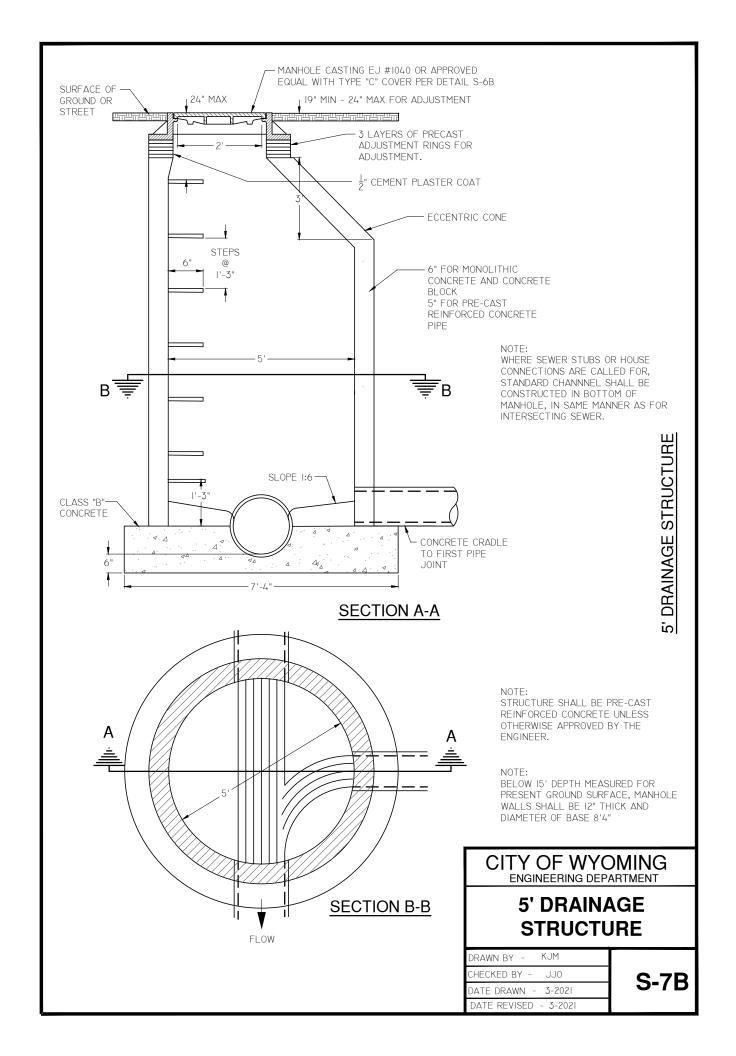
1 3/8"

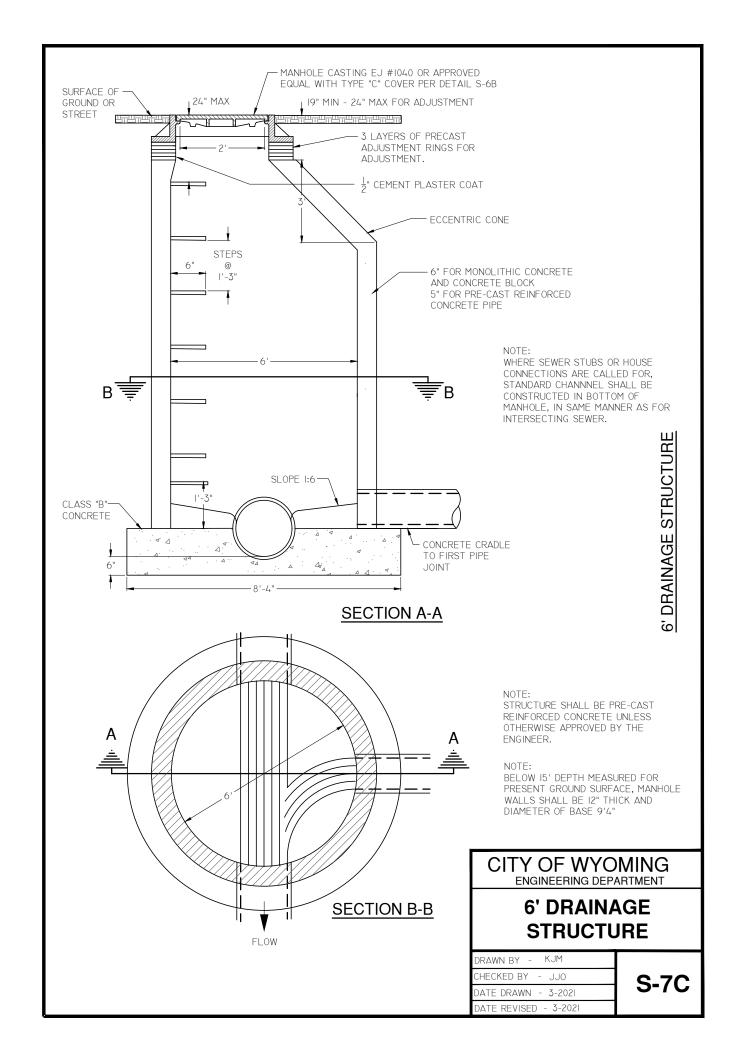
(35mm)

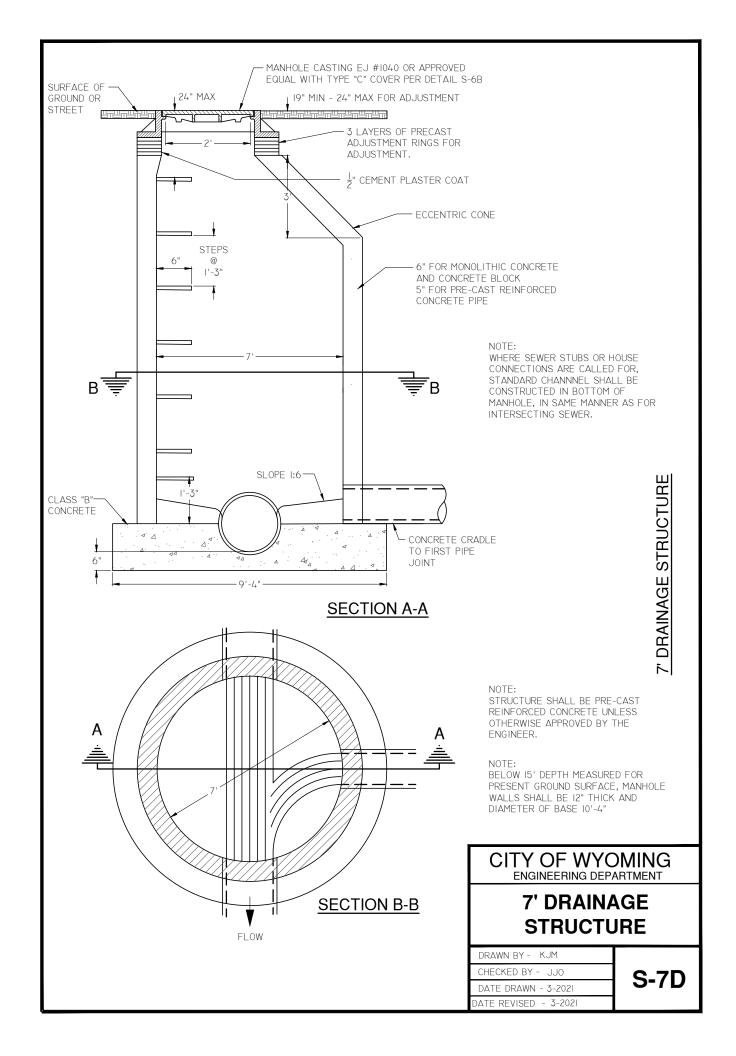
S-6B

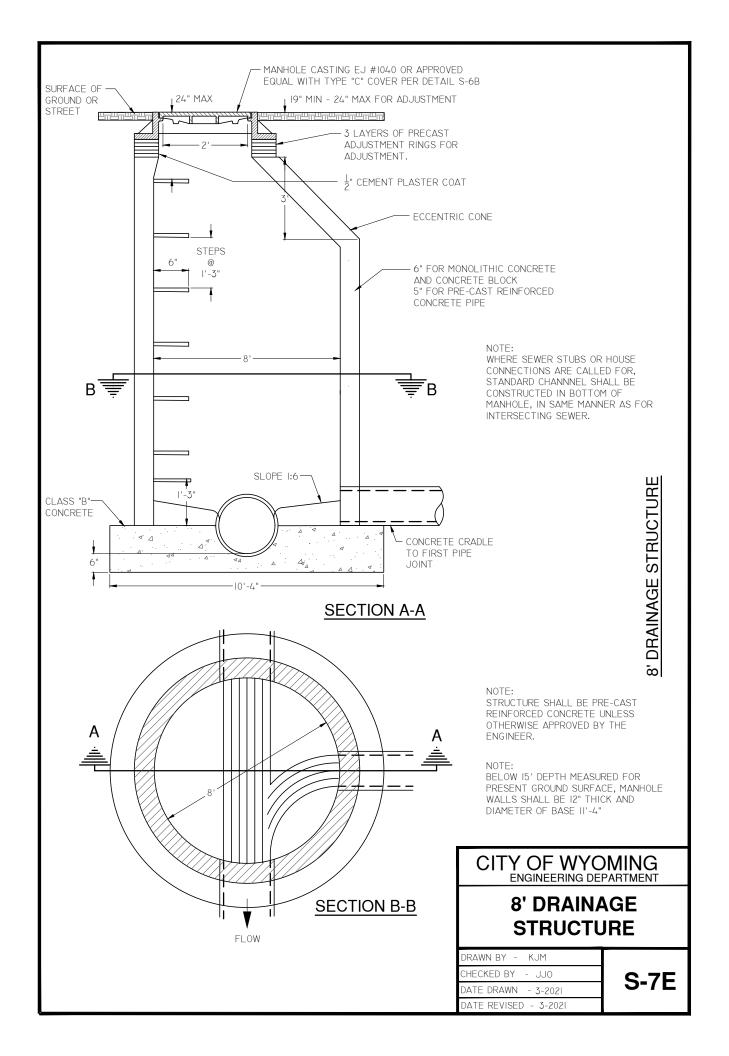


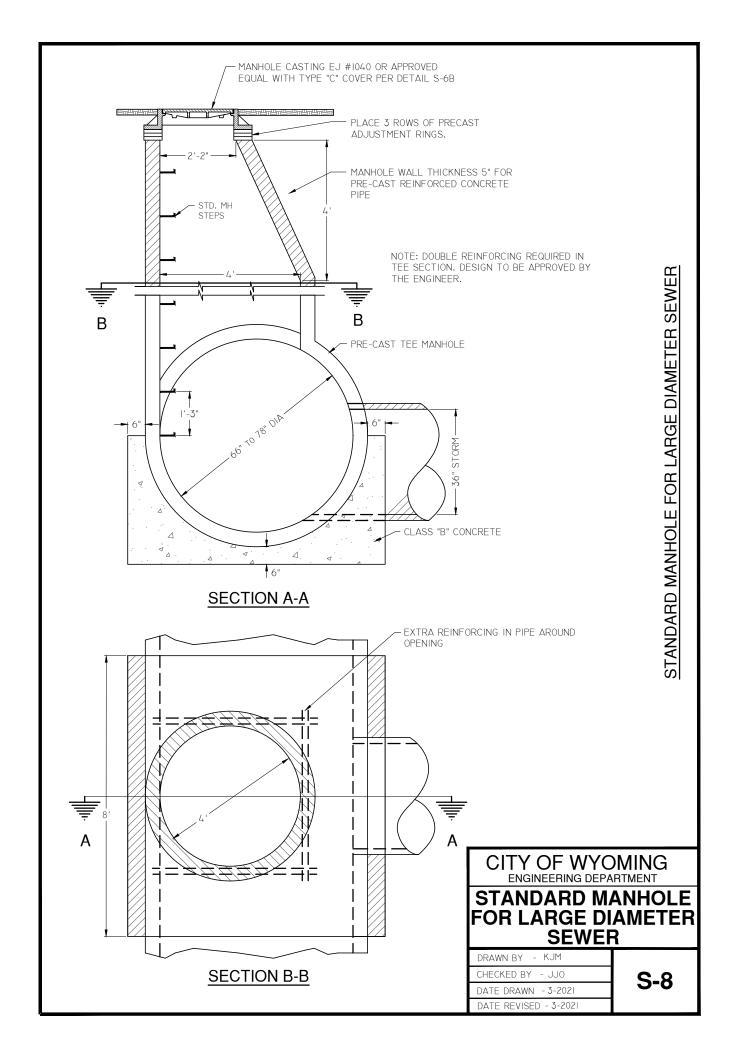


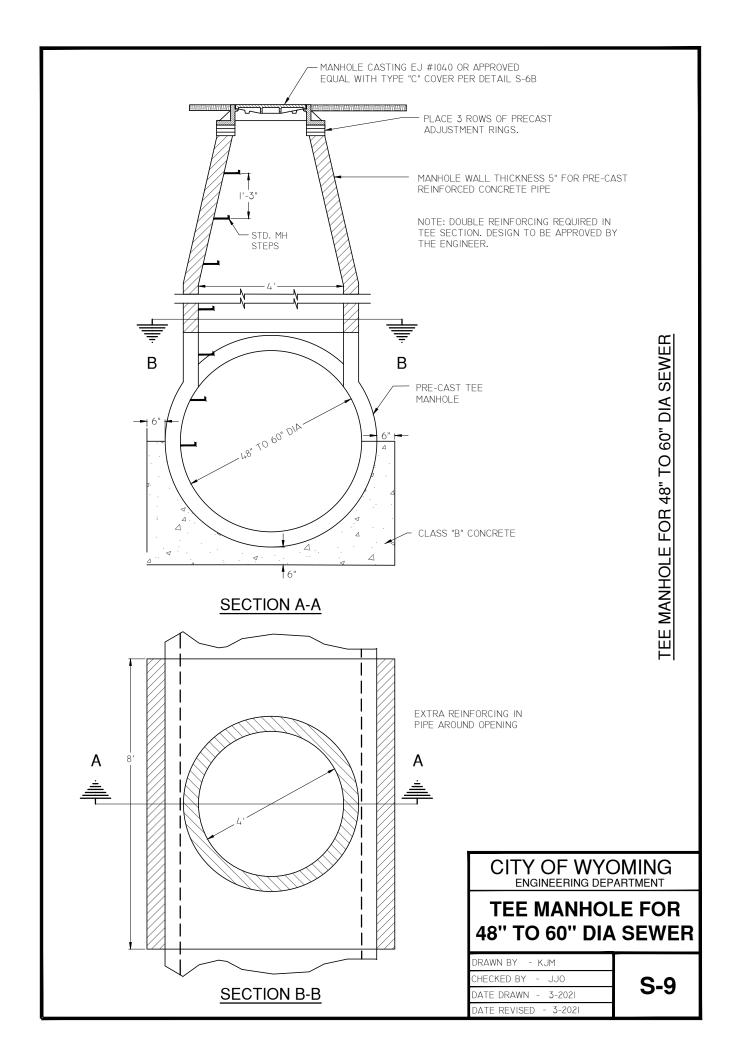


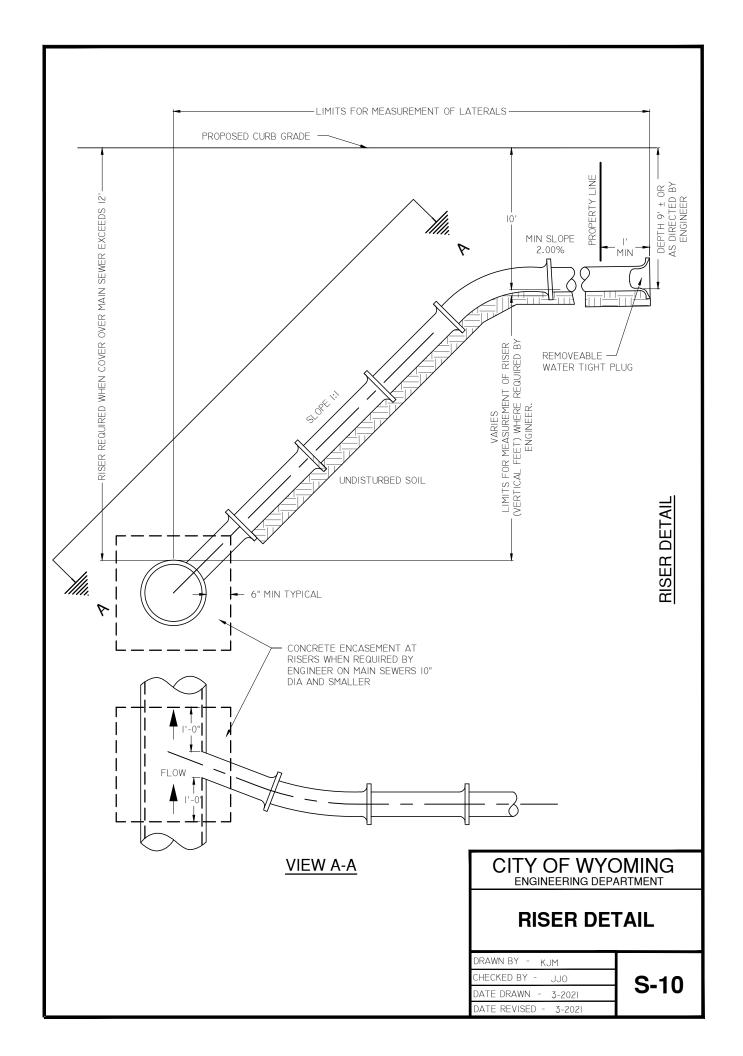


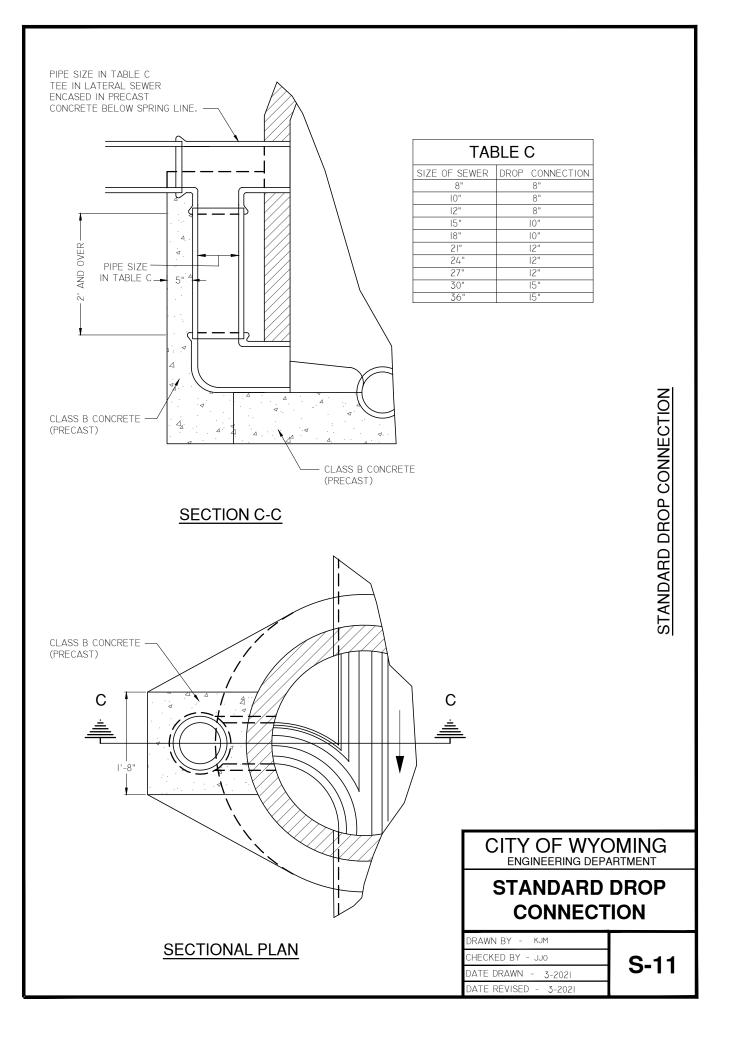




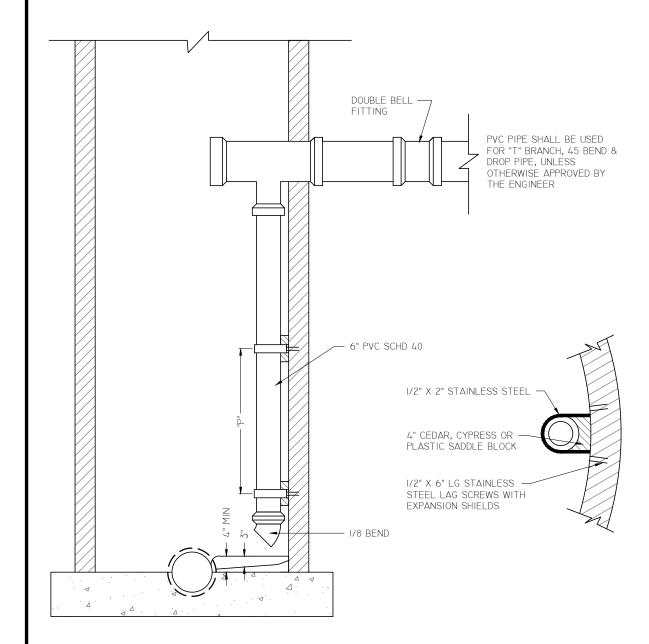








DIAMETER OF SEWER	SIZE OF T BRANCH
8"	8" x 6"
6"	6" x 6"



SEWERS MINIMUM DROP = 3'-6"

P=5' MAX. SPACING WITH AT LEAST 3 STRAPS USED FOR EACH INSTALLATION.

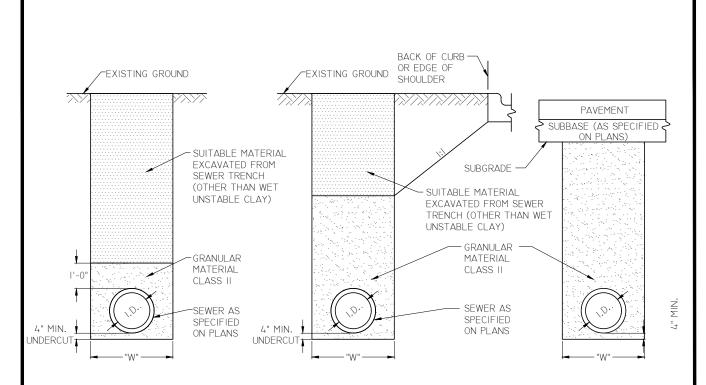
THE FORMING OF A CHANNEL IN THE BENCH OF AN EXISTING MANHOLE WILL BE REQUIRED UNLESS APPROVED BY THE ENGINEER.
THE FORMING OF ANY CHANNEL MUST BE MADE AS DIRECTED BY THE ENGINEER.

# CITY OF WYOMING ENGINEERING DEPARTMENT

# INSIDE DROP CONNECTION

DRAWN BY - KJM
CHECKED BY - JJO
DATE DRAWN - 3-2021
DATE DEVICED - 7 2021

**S-12** 



### SEWER NOT UNDER ROADBED

# SEWER UNDER ROADBED OR WITH INFLUENCE OF ROADBED

SUFFICIENT TRENCH WIDTH SHALL BE PROVIDED TO ALLOW FREE WORKING SPACE AND TO PERMIT COMPACTING THE BACKFILL AROUND THE PIPE.

THE FOLLOWING ARE MINIMUM TRENCH WIDTHS:

I.D. PIPE SIZE (INCHES)	LESS THAN 18	21	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108
"W" TRENCH WIDTH (FEET)	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0

### NOTES:

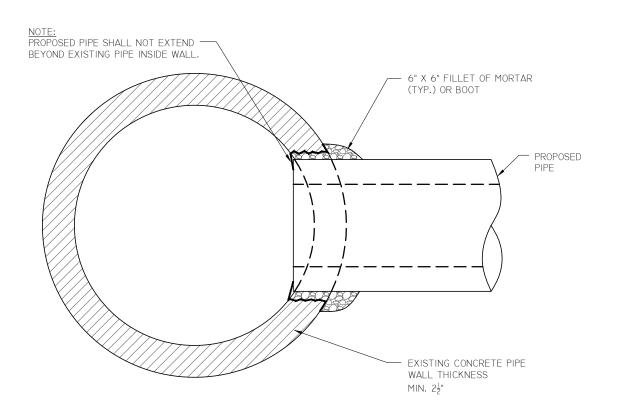
BACKFILL FOR UTILITY TRENCHES ABOVE GRANULAR MATERIAL CLASS II SHALL BE PLACED AS FOLLOWS:

- (A) GRANULAR MATERIAL OF THE CLASS SPECIFIED ON DETAILS. SHALL BE USED TO BACKFILL TRENCHES UNDER THE ROADBED AND SHALL BE COMPACTED TO NOT LESS THAN 95% OF ITS MAXIMUM UNIT WEIGHT.
- (B) GRANULAR MATERIAL. OF THE CLASS SPECIFIED ON DETAILS. SHALL BE USED TO BACKFILL UTILITY TRENCHES OUTSIDE THE ROADBED BUT WITHIN THE I:I ZONE OF INFLUENCE SHOWN. IT WILL ALSO BE USED AS BACKFILL UNDER SIDEWALKS, SURFACED AREAS, AND MISCELLANEOUS STRUCTURES, AND COMPACTED TO NOT LESS THAN 95% OF ITS MAXIMUM UNIT WEIGHT.
- (C) WHEN ACCEPTABLE, MATERIAL EXCAVATED FROM THE UTILITY TRENCHES SHALL BE USED TO BACKFILL UTILITY TRENCHES OUTSIDE THE LIMITS OF THE 1:1 ZONE OF INFLUENCE AND SHALL BE COMPACTED TO NOT LESS THEN 90% OF ITS MAXIMUM UNIT WEIGHT.

# CITY OF WYOMING ENGINEERING DEPARTMENT

### **BEDDING FOR PIPES**

DRAWN BY - KJM	
CHECKED BY - JJO	C 12
DATE DRAWN - 3-2021	S-13
DATE REVISED - 3-2021	



### **SECTION**

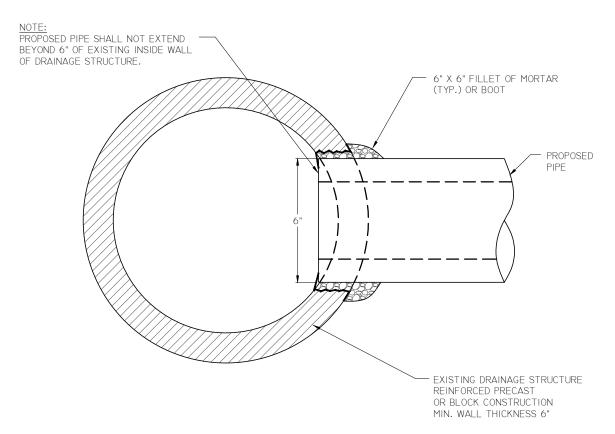
NOTE: SIZE OF TAP EQUALS PROPOSED PIPE SIZE

CITY OF WYOMING ENGINEERING DEPARTMENT

### **STORM SEWER TAP**

DRAWN BY - KJM
CHECKED BY - JJO
DATE DRAWN - 3-2021
DATE REVISED - 3-2021

S-14A



### **PLAN**

NOTE: ALL RECHANNELING REQUIRED INSIDE OF DRAINAGE STRUCTURE WILL BE INCLUDED IN UNIT PRICE BID FOR SEWER CUT-INS.

CITY OF WY	
DRAINAGE ST (STORM S CUT-I	SEWER
DRAWN BY - KJM	

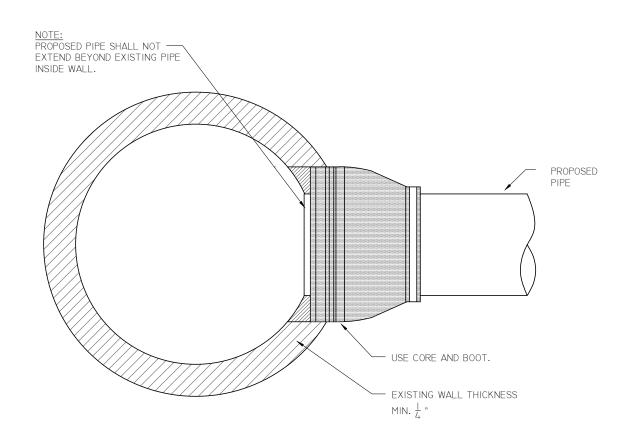
DRAWN BY - KJM

CHECKED BY - JJO

DATE DRAWN - 3-2021

DATE REVISED - 3-2021

S-14B



### **SECTION**

NOTE: SIZE OF TAP SHOULD BE OF ADEQUATE SIZE FOR CORE OR CUT IN SADDLE

> CITY OF WYOMING ENGINEERING DEPARTMENT

### **SANITARY SEWER TAP**

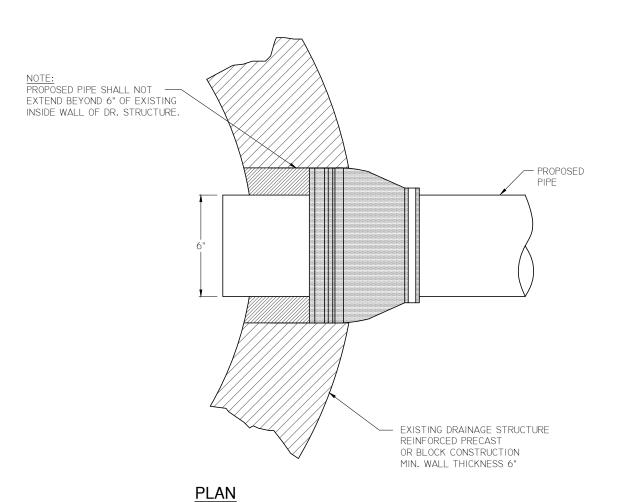
DRAWN BY - KJM

CHECKED BY - JJO

DATE DRAWN - 3-2021

DATE REVISED - 3-2021

S-15A



NOTE: ALL RECHANNELING
REQUIRED INSIDE OF
DRAINAGE STRUCTURE WILL
BE INCLUDED IN UNIT PRICE
BID FOR SEWER CUT-INS.

### CITY OF WYOMING ENGINEERING DEPARTMENT

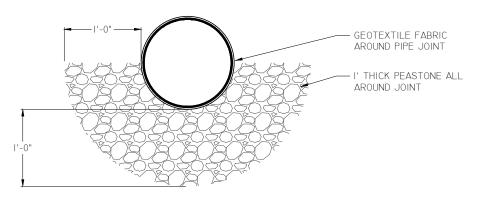
### DRAINAGE STRUCTURE (SANITARY SEWER CUT-IN)

DRAWN BY - KJM CHECKED BY - JJC

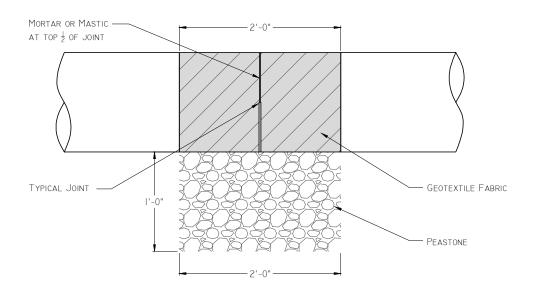
DATE DRAWN - 3-2021

DATE REVISED - 3-2021

S-15B



### **END VIEW**



### SIDE VIEW

CITY OF WYOMING ENGINEERING DEPARTMENT

### **OPEN JOINT DETAIL**

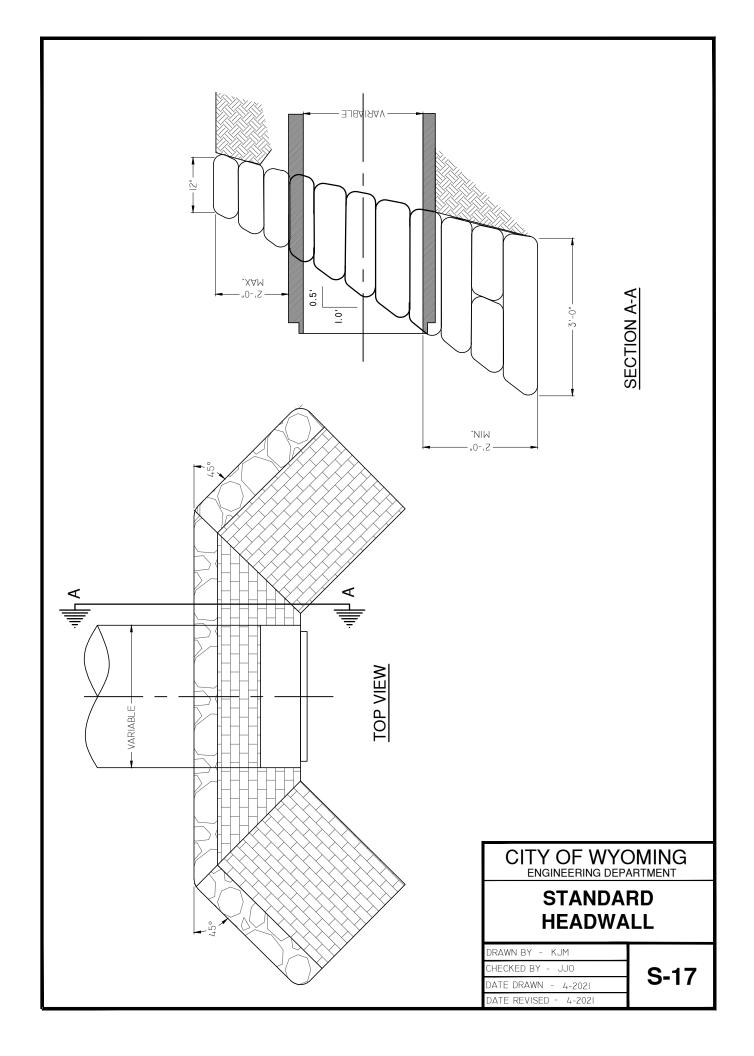
DRAWN BY - KJM

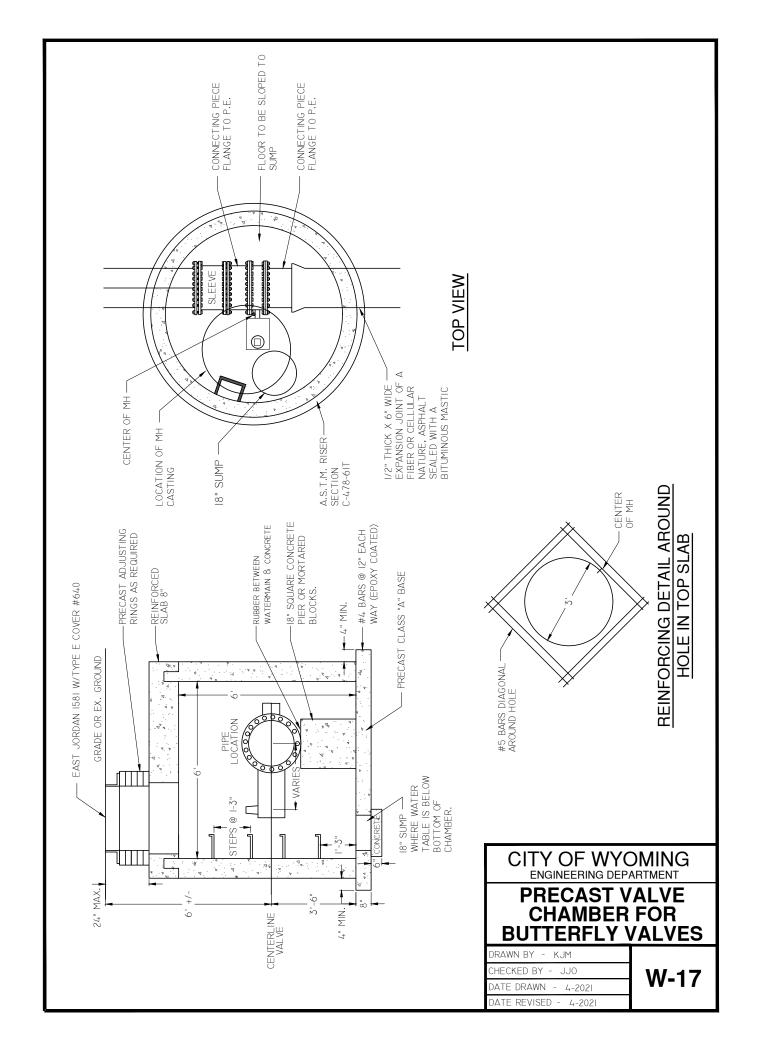
CHECKED BY - JJO

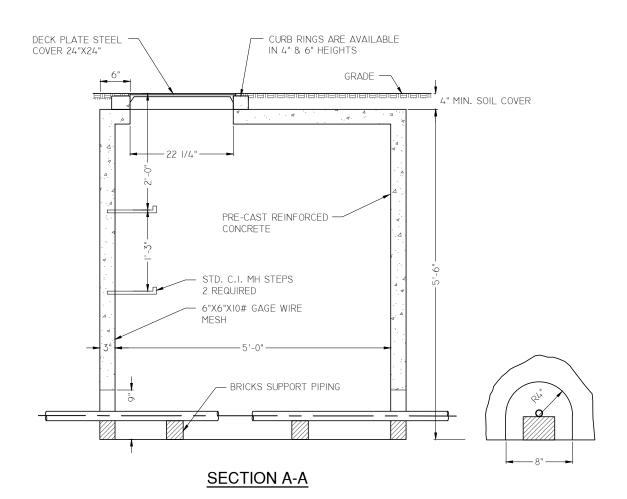
DATE DRAWN - 4-2021

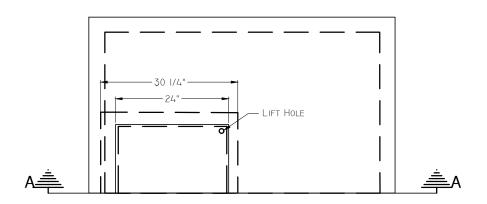
DATE REVISED - 4-2021

**S-16** 









### **TOP VIEW**

NOTE: CONCRETE REINFORCED WITH 6"X6"X10# GAGE WIRE MESH.

NOT TO BE CONSTRUCTED BELOW DRIVEWAYS OR PARKING AREAS.

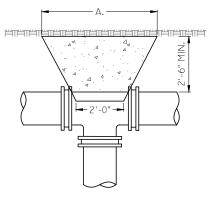
# CITY OF WYOMING ENGINEERING DEPARTMENT

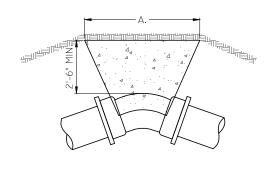
STANDADD METED DI

STANDARD METER P	Π
------------------	---

DRAWN BY - KJM
CHECKED BY - JJO
DATE DRAWN - 4-2021
DATE REVISED - 1-2021

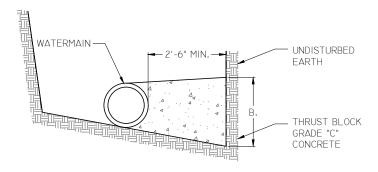
W-18





# TYPICAL TEE CONNECTION

# TYPICAL BEND CONNECTION



# $\frac{\text{TYPICAL SECTION THRU}}{\text{THRUST BLOCK}}$

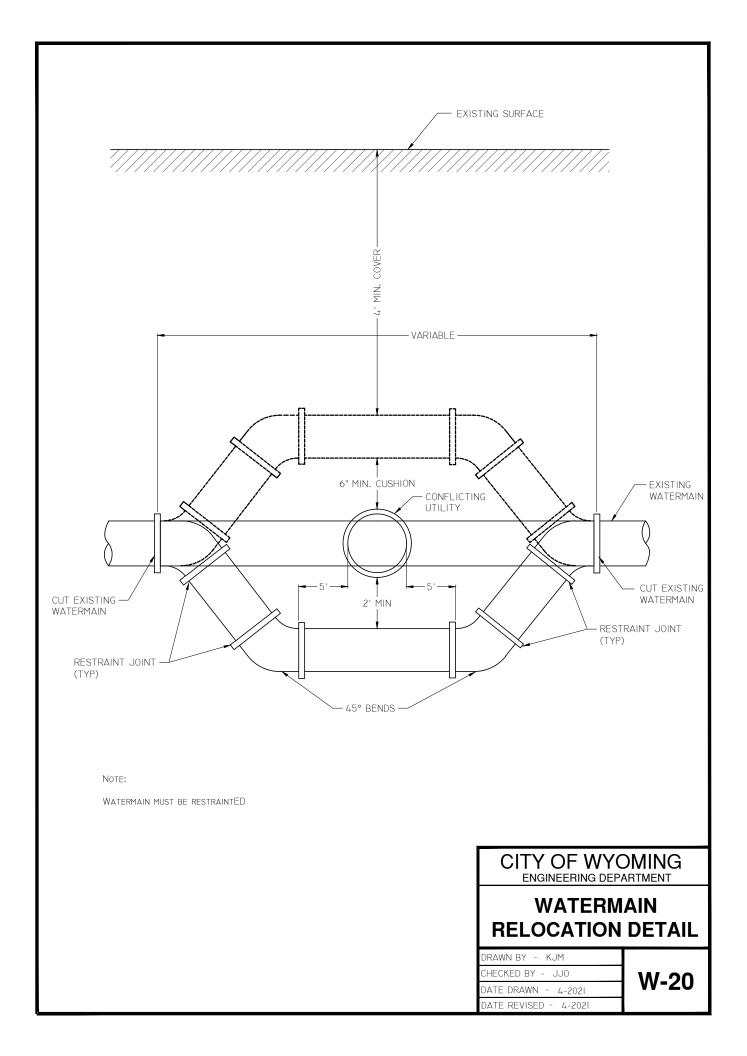
		<u>A.</u>	<u>B.</u>			<u>A.</u>	<u>B.</u>
4"	TEE 90° 45°	l, l,	'  '  '	12"	TEE 90° 45°	3' 4' 3'	2' 2' 2'
	22.5°	1.	- 1'		22.5°	3'	Ι'
6"	TEE 90° 45° 22.5°	2' 2' 2' 2'	l' l' l'	16"	TEE 90° 45° 22.5°	4' 5' 4' 3'	2' 3' 2' 2'
8"	TEE 90° 45° 22.5°	3' 3' 2'	'  '  '  '	20"	TEE 90° 45° 22.5°	5' 5' 4'	3' 4' 3' 2'
10"	TEE 90° 45° 22.5°	3' 3' 3'	2' 2' 2' !'	24"	TEE 90° 45° 22.5°	5' 6' 5' 4'	4' 4' 3' 2'

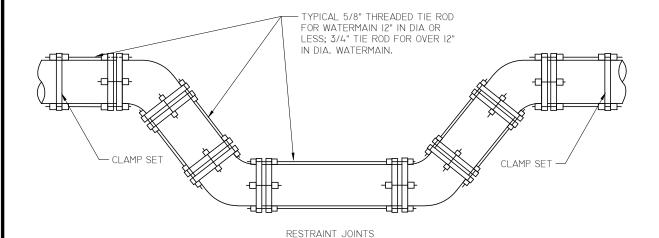
CITY OF WYOMING ENGINEERING DEPARTMENT

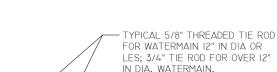
# THRUST BLOCK DETAILS

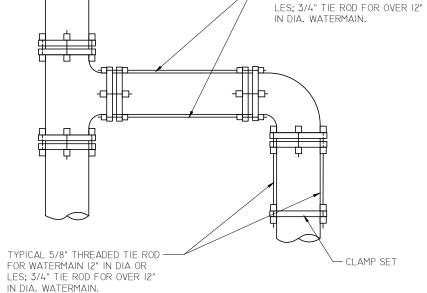
DRAWN BY - KJM
CHECKED BY - JJ0
DATE DRAWN - 4-2021
DATE REVISED - 4-2021

W-19







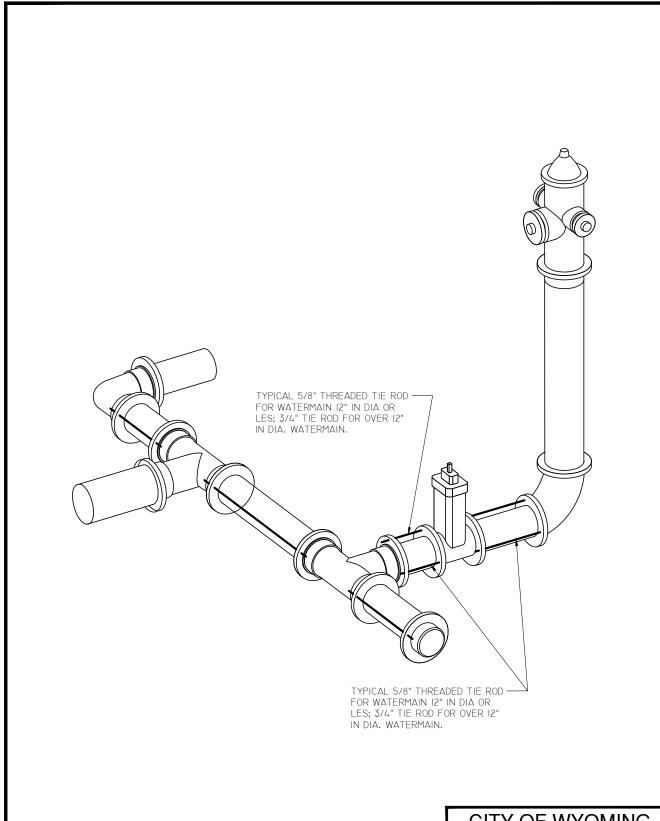


### CITY OF WYOMING ENGINEERING DEPARTMENT

### LEGACY WATERMAIN TIE RODS FOR THRUST RESTRAINT

DRAWN BY - KJM
CHECKED BY - JJ0
DATE DRAWN - 4-2021
DATE REVISED - 4-2021

W-21A



### CITY OF WYOMING ENGINEERING DEPARTMENT

### TYPICAL HYDRANT TIE RODS FOR THRUST RESTRAINT

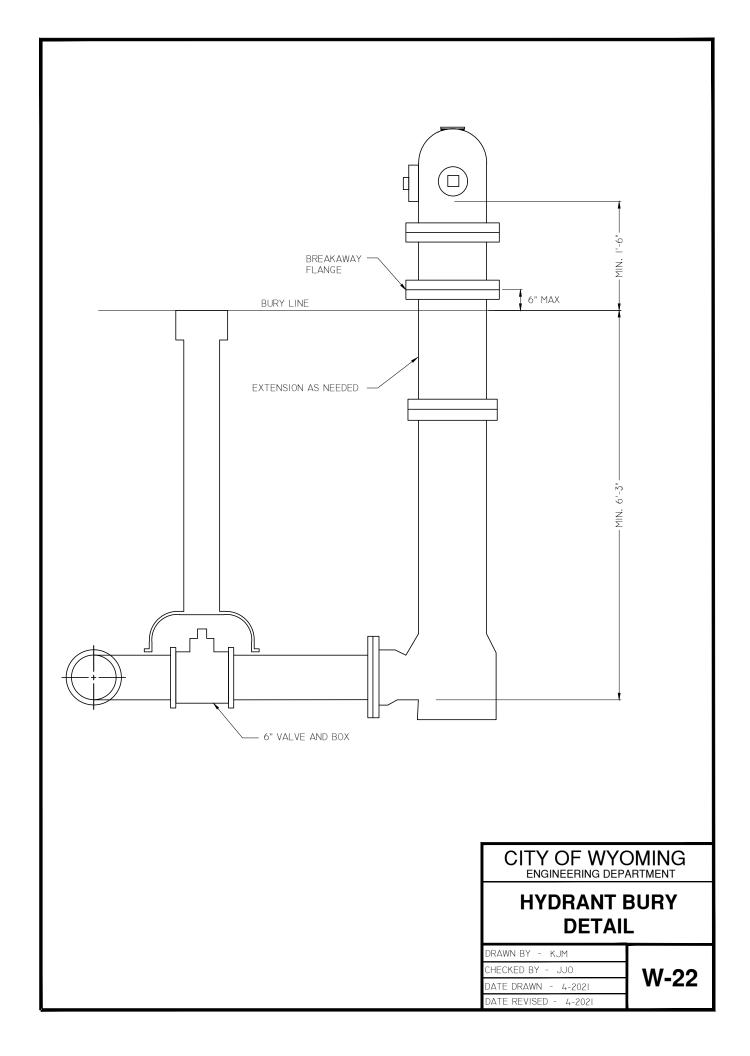
DRAWN BY - KJM

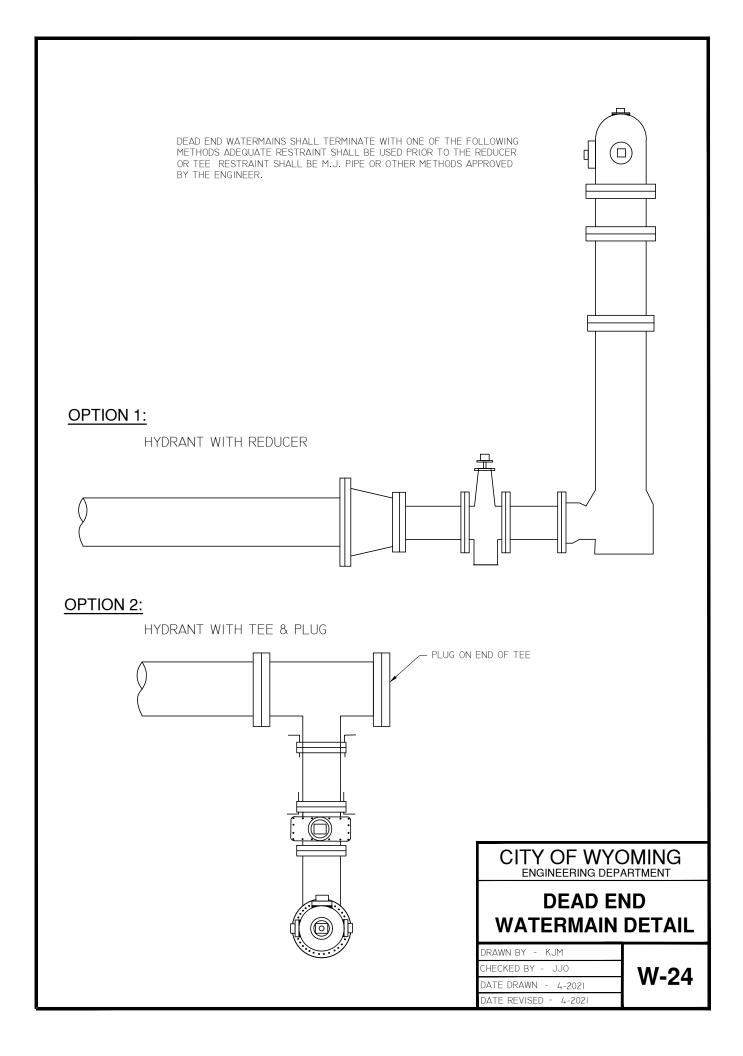
CHECKED BY - JJO

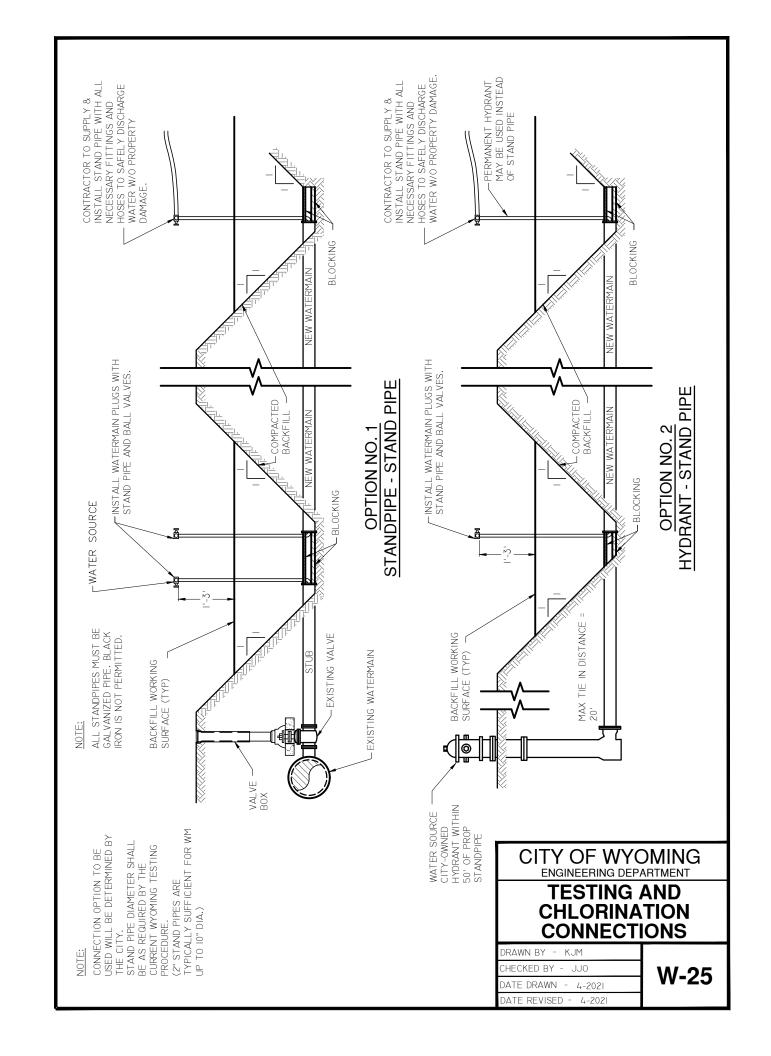
DATE DRAWN - 4-2021

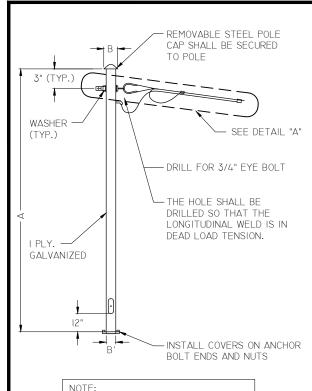
DATE REVISED - 4-2021

W-21B









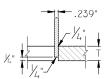
POLE REQUIREMENTS					
LENGTH	А	30 FT	30 FT (ALTERNATE)	35 FT	
GUAGE		#3-I PLY (MIN.)	#3-I PLY (MIN.)	#3-I PLY (MIN.)	
POLE DIA AT TOP POLE DIA AT BOTTOM	B B'	8" MIN ±½"  3" ±½"	7¾," MIN ±½,"  1¾," ±½,"	8" MIN ±½"  3" ±½"	
MAX DEFLECTION LOAD  18" F ROM TOP FOR  UNGUYED POLE		3700 LBS	3700 LBS	3700 LBS	
DEFLECTION 18" FROM TOP		NOT GREATER THAN 0.4"/100 LBS	NOT GREATER THAN 0.4"/100 LBS	NOT GREATER THAN 0.4"/100 LBS	
FULL LENGTH TAPER	_ LENGTH TAPER -		+.003 IN/FT 0.14 IN/FT 000 IN/FT	+.003 IN/FT 0.14 IN/FT 000 IN/FT	
BASE PLATE	D	20 IN	20 IN	20 IN	
BASE PLAT THICKNESS	Т	2 IN	2 IN	2 IN	
ANCHOR BOLT CIRCLE	ВС	20 IN	20 IN	20 IN	
ANCHOR BOLT DIA	d	2 IN	2 IN	2 IN	
ANCHOR BOLT LENGTH (INCLUDES 5" "L" BEND)		120 IN	120 IN	120 IN	

### ANCHOR BASE STEEL STRAIN POLE

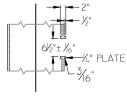
GROUNDING SYSTEM SHALL MEASURE 10 OHM OR LESS TO GROUND

- ACCEPTABLE MILL TOLERANCES TO APPLY TO ALL NOMINAL DIMENSIONS.
- HANDHOLE SHALL BE PROVIDED & BE PERPENDICULAR TO EYE BOLT HOLE.
- MATERIAL ( ) GALVANIZED FINISH.
  - SHAFT STEEL SHALL BE ASTM A572. FY-50KSI.
    - BASE PLATE ASTM A36.
    - ALL GALVANIZING SHALL MEET ASTM A123.
    - ANCHOR BOLTS SHALL BE ASTM A307. FY-50KSI. IN ACCORDANCE D. WITH (ART. 8.07.14) OF MOOT SPECIFICATIONS.
- WELDING
  - WELDING SHALL CONFORM TO AWS 01.1
  - ULTRASONIC INSPECTION FOR ALL 100% WELDS AND VISUAL AND/OR MAGNETIC PARTICLE FOR ALL OTHERS
- TOLERANCES OVERALL HEIGHT +/- I% I
  - SWEEP AN CHAMBER " PER FEET. 8
  - TWIST IO" MAX. OVERALL.
- DESIGN CONFORMING TO CURRENT AASHTO

  A. SPECIFICATIONS FOR DESIGN OF STRUCTURAL SUPPORTS FOR TRAFFIC SIGNALS ASSUMING A SAG OF 10% OF SPAN WITH MAXIMUM OF 5 SIGNALS WITH PLASTIC HEADS TETHERED.



### BASE TO BASE **WELD JOINT**



DRAWN BY -CHECKED BY - RH DATE DRAWN - JUNE, 2008 DATE REVISED - JUNE, 2008

CITY OF WYOMING **ENGINEERING DEPARTMENT** 

TRAFFIC SIGNAL POLE

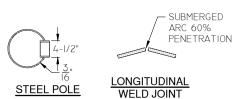
T-1A

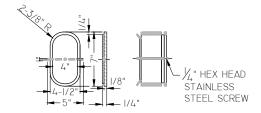
# N.T.S.

REQUIRED UNION METAL 30' GALVANIZED POLE WITH ANCHOR BOLTS OR EQUAL



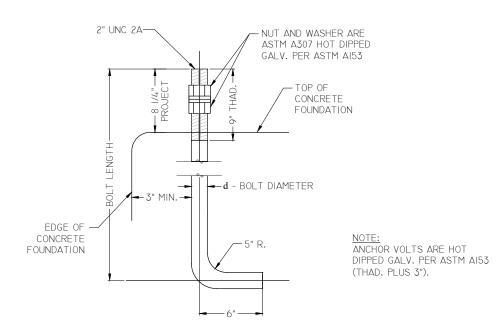
### TYPICAL CROSS SECTION (POLYGON OPTIONAL)



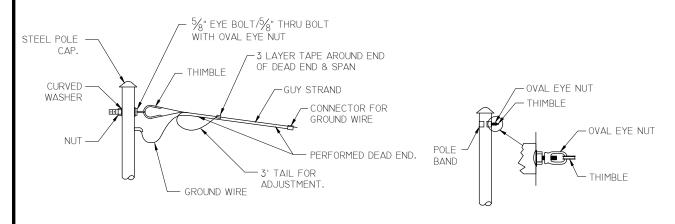


HAND HOLE COVER

SECTION "A-A"



### **ANCHOR BOLT**



### DETAIL "A"

### DETAIL "A" (ALTERNATE)

REQUIRED UNION METAL 30' GALVANIZED POLE WITH ANCHOR BOLTS OR EQUAL

# CITY OF WYOMING ENGINEERING DEPARTMENT

## WALK WAIT PEDESTAL (DETAILS)

DRAWN BY - JZ
CHECKED BY - MB
DATE DRAWN -
DATE REVISED - MARCH, 1990

**T-1B** 



 $4\frac{1}{2}$ " O.D. x .237 WALL SCHEDULE 40-10.79 LB/FT GALVANIZED PER ASTM-A-123 IF REQUIRED

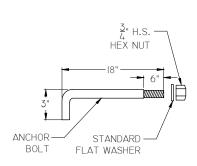
### ALUMINUM POLE

6063-T6 ALLOY

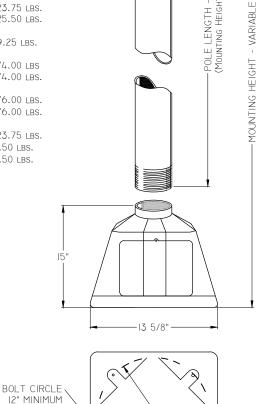
 $4\frac{1}{2}$ " O.D. x .237 WALL SCHEDULE 40-3.73 LB/FT SPUN FINISH (UNLESS SPECIFIED OTHERWISE)

CATALOG NO.	DESCRIPTION	WEIGHT
*P85100-2	2' SPUN ALUMINUM POLE	7.50 LBS.
*P85100-7	7' SPUN ALUMINUM POLE	26.00 LBS.
*P85100-9	9' SPUN ALUMINUM POLE	33.50 LBS.
*P85100-10.5	10' 6" Spun Aluminum Pole	39.50 LBS.
*P85200-7	7' STEEL POLE (GALVANIZED)	75.00 LBS.
*P85200-9	9' STEEL POLE (GALVANIZED)	97.00 LBS.
*P85200-I0.5	10' 6" STEEL POLE (GALVANIZED)	114.00 LBS.
P85300	SQUARE ALUMINUM BASE	23.75 LBS.
P85301	OCTAGONAL ALUMINUM BASE	25.50 LBS.
P85306	ANCHOR BOLT (SET OF 4 WITH I NUT	
	AND WASHER PER BOLT	9.25 LBS.
P85307	SQUARE CAST IRON BASE	
	(PAINTED-SPECIFY GREEN OR YELLOW)	74.00 LBS
P85308	SQUARE CAST IRON BASE (GALVANIZED)	74.00 LBS.
P85309	OCTAGONAL CAST IRON BASE	
	(PAINTED-SPECIFY GREEN OR YELLOW)	76.00 LBS.
P85310	OCTAGONAL CAST IRON BASE (GALVANIZED)	76.00 LBS.
P85311	SQUARE ALUMINUM BASE (HEAT TREATED	
	356-T6)	23.75 LBS.
P85401	POST CAP (ACORN TYPE)	1.50 LBS.
P85402	POST CAP (DOME TYPE)	1.50 LBS.

<sup>\*</sup>OTHER LENGTHS AVAILABLE ON REQUEST.



 $14\frac{3}{4}$ " MAXIMUM



POST CAP P85401

POLE LENGTH - VARIABLE : (Mounting Heights Less 12")

PELCO'S SIGNAL BASES AND POLES ARE MANUFACTURED TO EXACTING SPECIFICATIONS FROM THE HIGHEST QUALITY MATERIALS. THESE PRODUCTS PROVIDE-EASE OF INSTALLATION, DURABILITY AND THE VERY MINIMUM IN MAINTENANCE

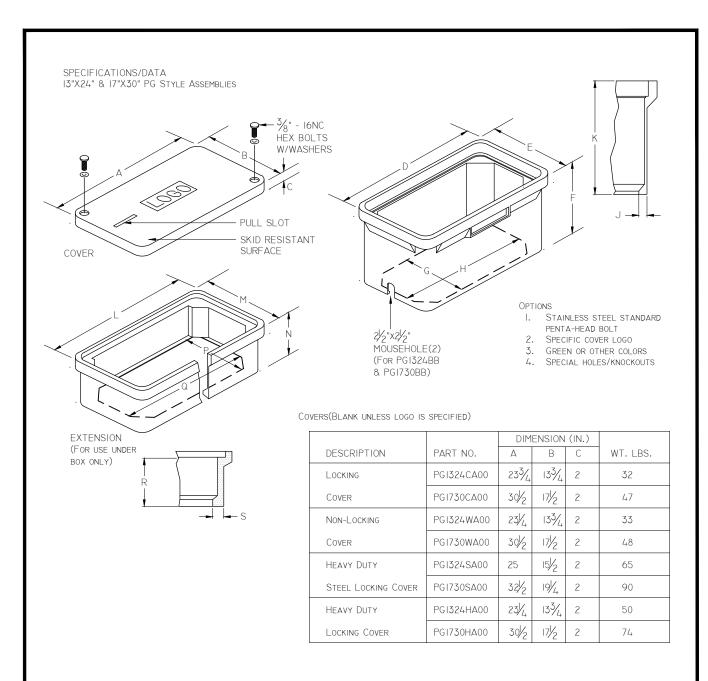
REQUIRED PELCO # PB5100-9 9' SPUN ALUMINUM POLE AND PELCO #PB5300 SQUARE ALUMINUM BASE WITH ANCHOR BOLTS OR EQUAL

### CITY OF WYOMING **ENGINEERING DEPARTMENT**

### **WALK WAIT PEDESTAL**

DRAWN BY -CHECKED BY - MB DATE DRAWN -DATE REVISED - MARCH, 1990

**T-2** 



		DIMENSIONS (IN.)				WT.			
DESCRIPTION	PART NO.	D	Е	F	G	Н	J	K	LBS.
	PGI324BAI2	25	15 ½	12	9 3/4	19 1/4	1 1/4	10	53
STANDARD	PGI324BAI8	25	15 ½	18	9 3/4	19 1/4	1 1/4	16	62
Box	PG1730BA12	32 1/4	19 1/4	12	13 1/2	26 1/2	1 1/4	10	82
	PG1730BA18	32 1/4	19 1/4	18	13 1/2	26 1/2	1 1/4	16	94
	PG1730BA18	32 1/4	19 1/4	22	13 ½	26 1/2	1 1/4	20	106

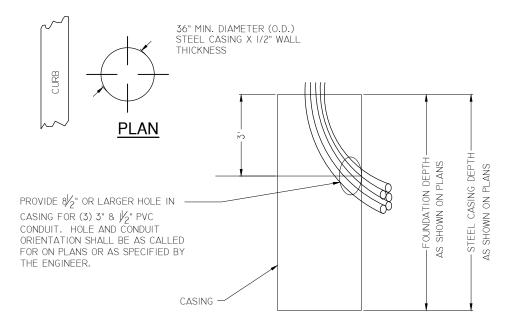
# CITY OF WYOMING ENGINEERING DEPARTMENT

# TRAFFIC SIGNAL HANDHOLE

	DRAWN BY - JZ
	CHECKED BY - MB
	DATE DRAWN -
	DATE REVISED - MARCH, 1990

**T-3** 

NOTE:
42" DIAMETER FOUNDATIONS ARE PERMISSIBLE BASED ON THE SPECIFICATIONS LISTED IN
THE FOUNDATION DEPTH AND SOIL TABLE. ALTERNATE 42" DIAMETER FOUNDATION
DEPTHS SHALL BE CONTRACTOR DEIGNED AND SUBMITTED FOR EVALUATION AND
APPROVAL OF THE ENGINEER.



- I. CUT 8/5" OR LARGER DIAMETER HOLE IN STEEL CASING AT 3 FEET ROM TOP OF FOUNDATION FOR CONDUIT.
- 2. TRENCH FOR PLACEMENT OF CONDUITS AFTER CASING IS IN PLACE AND BEFORE DEWATERING.

FOUNDATION DEPTH AND SOIL TABLE						
MAST ARM	SOIL COND	ITION	FOUNDATION DEPTH	CASING DEPTH		
TYPE	Suc	N	(MIN)	DLITH		
SINGLE ARM	500 <suc<750< td=""><td>4<n<10< td=""><td>16.0'</td><td></td></n<10<></td></suc<750<>	4 <n<10< td=""><td>16.0'</td><td></td></n<10<>	16.0'			
SINGLE ARM	Suc>750	N>10	13.5'	AS SHOWN ON PLANS		
DOUBLE ARM	500 <suc<750< td=""><td>4<n<10< td=""><td>18.5'</td><td></td></n<10<></td></suc<750<>	4 <n<10< td=""><td>18.5'</td><td></td></n<10<>	18.5'			
DOUBLE ARM	Suc>750	N>10	15.5'			

SUC=UNCONFIDED COMPRESSIVE SHEARING RESISTANCE IN COHESIVE SOIL (PSF N=BLOWS/F00T OF PENETRATION ACCORDING TO ASTM DI586.

A SPECIAL DESIGN IS REQUIRED IF N<4 OR Suc<500 PSF

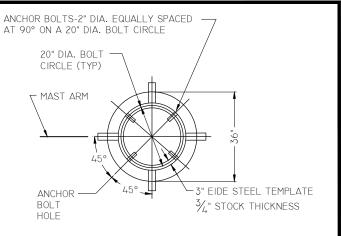
### CITY OF WYOMING ENGINEERING DEPARTMENT

# MAST ARM STANDARD FOUNDATIONS

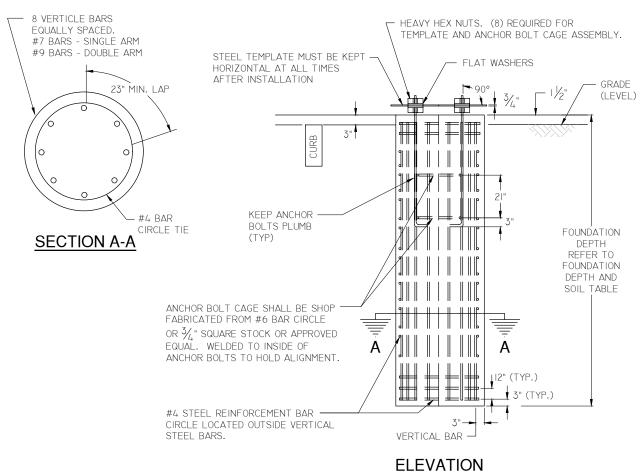
	DRAWN BY - JZ
	CHECKED BY - MB
	DATE DRAWN -
	DATE REVISED - MARCH, 1990

T-4A

- I. ANCHOR BOTS SHALL BE SET AND HELD VERTICAL AT THE CORRECT LOCATION AND AT THE PROPER ELEVATION WITH A  $\frac{3}{4}$ " STEEL (OR APPROVED EQUAL) TEMPLATE A MINIMUM OF 24 HOURS AFTER AFTER THE CONCRETE PLACEMENT HAS BEEN COMPLETED. EACH SET OF FOUR BOLTS SHALL BE TIED TOGETHER BY WELDING INTO A BASKET WITH #6 BAR CIRCLE OR APPROVED EQUAL. THIS IS IN ADDITION TO THE STEEL TEMPLATE.
- 2. (4) ANCHOR BOLTS WITH (2) HEX NUTS. (2) WASHERS AND (2) S.S. BEVELED WASHERS PER BOLT WITH THREADED END GALVANIZED A MINIMUM 20" PER ASTM AI53



### **PLAN VIEW**

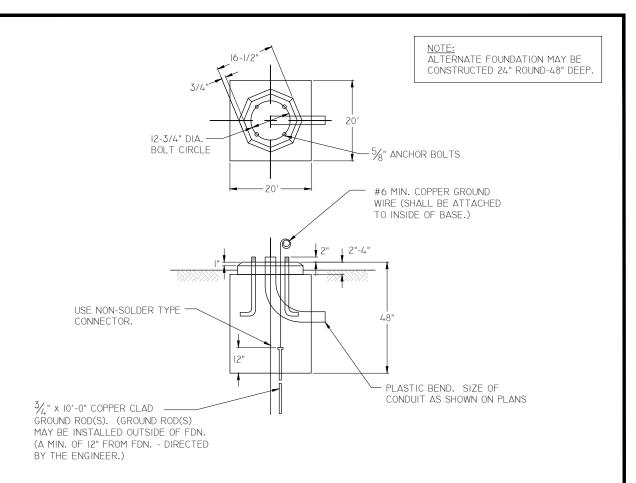


CITY OF WYOMING ENGINEERING DEPARTMENT

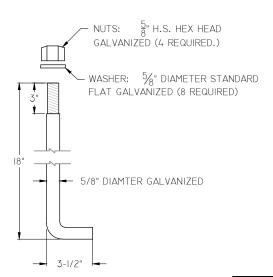
### MAST ARM STANDARD **FOUNDATIONS**

DRAWN BY -CHECKED BY - RH DATE DRAWN JUNE 2008 DATE REVISED -

**T-4B** 



### PEDESTAL FOUNDATION



# DETAIL OF ANCHOR BOLT ANCHOR BOLTS ARE TO BE 307 STEEL (4 REQUIRED)

TYPE OF ANCHOR BOLTS AND PLACEMENT IN CONCRETE BASE WILL BE PER DETAIL T2

POURED CONCRETE TO MEET CITY OF WYOMING AND MDOT STANDARD SPECIFICATIONS

CITY OF WYOMING ENGINEERING DEPARTMENT

# CONCRETE BASE FOR WALK WAIT SIGNAL

DRAWN BY - JZ	
CHECKED BY - MB	T -
DATE DRAWN -	1-5
DATE REVISED - MARCH 1990	